#### MERIDIAN OIL

September 10, 1986

State of Utah Natural Resources Oil, Gas and Mining 355 W. North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203

Attention: Arlene Sollis

Application for Permit to Drill

22-19 Havasu-Federal SENW Section 19-38S-24E San Juan County, Utah Federal Lease No. U-56186



DIVISION OF OIL. GAS & MINING

#### Gentlemen:

Re:

Enclosed are three copies of Form 3160-3, Application for Permit to Drill with attachments for the above referenced location.

Please be advised that Meridian Oil Inc. requests that all pertinent data for this location be granted TIGHT HOLE status.

If you have any questions, please do not hesitate to call me at 406-256-4122.

Sincerely,

S. S. Nelson

Sr. Operations Technician

ssn

Enc1

1175N

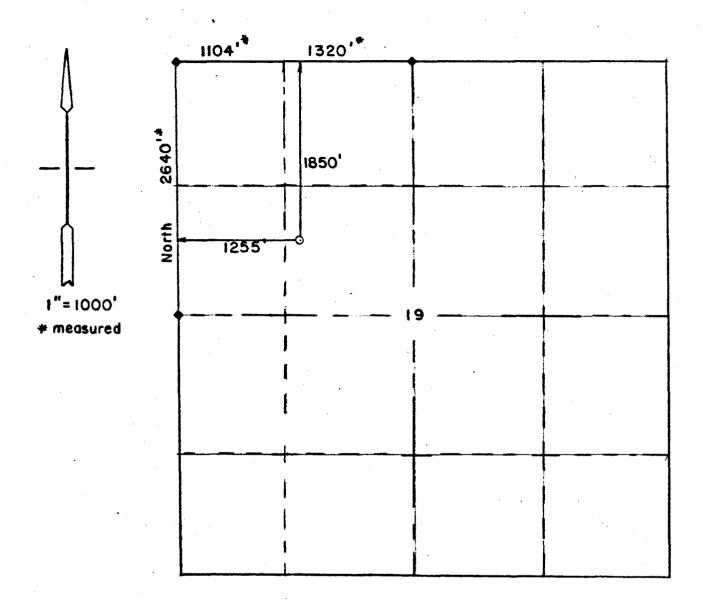
Form 3160-3 (November 1983) (formerly 9-331C)

# CONTROL STATES EN

(Other instructions on gevers side)

Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985

	5. LEASE DESIGNATIO	N AND SERIAL NO.					
	U-56186						
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						6. IF INDIAN, ALLOTT	EE OR TRIBE NAME
1a. TYPE OF WORK	ILL xx	DEEPEN		PLUG BAG	יע ר	7. UNIT AGREEMENT	NAME
b. TYPE OF WELL	ILL AA	DEEPLIN		PLUG BA	-N [_]		
WELL LXJ v	VELL OTHER			INGLE X MULTIP	LE	8. FARM OR LEASE N.	AMB
2. NAME OF OPERATOR						Havasu-Fed	eral
MERI  ADDRESS OF OPERATOR	DIAN OIL INC.					9. WELL NO.	
	Por 1055 D#1	1	E01'0			22-19	
. LOCATION OF WELL (B	Box 1855, Bil Report location clearly and	lings, MT	5910.	State requirements *)		10. FIELD AND POOL,	
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At proposed prod. zoi	(1850' FNL - 1	255' FWL)				AND SURVEY OR	AREA
	Same					Section 19	, T38S, R24E
	AND DIRECTION FROM NEA			E *		12. COUNTY OR PARIS	
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(Also to nearest dr. S. DISTANCE FROM PROI	g. unit line, if any)	1255'		427.68		4	0
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	<b> </b> ·				ይ 110	3% salt, 16% go sx "B" + 2% C	el & .2% rtrd
7-7/8	5-1/2	15.5#		6,200'	Single	stage. TOC @	1500' Cal
					log +	20% excess.	"B" + 16% ge1
	56	VE VE	777	(Ch)	3% sa1	t, .4% rtrdr	⊊ "B" + 3% Kc
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CONDITIONS OF APPROVA	AL, IF ANY:			DATE/_7-	18-8	3CO DATE	
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				WELL SPACE	NG.	3121	
		*See Instru	ctions	On Reverse Side	.,,,,	7	



WELL LOCATION DESCRIPTION:

MERIDIAN OIL
22-19 FEDERAL HAVASU
1850'FN & 1255'FW
SECTION 19, T38S, R24E, SLM
SAN JUAN COUNTY, UTAH
GROUND ELFVATION 5080'

REFERENCES:

1440'FN & 1210'FW 5105' GRD. 200'East 5096' GRD.

2 Sept 1986

The above plat is true and correct to the best of my knowledge and belief.

Seculd 2.

GERALD G. HUDDLESTON

LAW OFFICES

#### PRUITT, GUSHEE & FLETCHER

SUITE 1850 BENEFICIAL LIFE TOWER

SALT LAKE CITY, UTAH 84111

(801) 531-8446

OF COUNSEL JAMES F. SHEPHERD

TELECOPIER (801) 531-8468

September 9, 1986

Division of Oil, Gas & Mining Department of Natural Resources State of Utah 355 West North Temple III Triad Center, Suite 350 Salt Lake City, Utah 84108-1203 OF UTAH DIVISION OF OIL, GAS, AND MINING DATE:

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BV.

Re:

Request for Exception Location; SE¼NW¼, Section 19, T38S-R24E, SLM

Gentlemen:

ROBERT G. PRUITT, JR. OLIVER W. GUSHEE, JR.

THOMAS W. BACHTELL

F. ALAN FLETCHER ROBERT G. PRUITT, III

Meridian Oil, Inc. plans to commence a well at the following location within the next fifteen (15) days:

1850 feet FLN, 1255 feet FWL, Section 19, T38S-R24E, SLM, San Juan County, Utah

This location requires approval as an exception location under Rule 302.1 of the Oil and Gas Conservation General Rules effective December 2, 1985.

Meredian Oil, Inc. and its partner, BWAB Inc. have secured the driling rights from the current leasehold owner, Peggy Yates, in the entire  $NW_4^1$  of subject Section 19. See attached Affidavit of William C. Mitchell.

The reason for the requested exception location is both topographical and geological. A drainage runs through the preferred legal location in the  $SW_4^1NW_4^1$ . Because of this drainage problem, it is not possible to drill a well at a legal location on said tract. As a result, Meridian Oil has moved the location to the East sufficient to avoid the drainage problem but to remain on the geological structure.

A Lease Ownership Plat is attached to the Affidavit of William C. Mitchell as Exhibit "A". The Exhibit "B" is a topographical plat which shows the location of the drainage area and depicts a geological feature. This information is proprietary and very sensitive and therefore, it is requested that the State maintain this plat in a confidential file.

Division of Oil, Gas & Mining September 9, 1986 Page Two

The exception location for the proposed well is requested in order to encounter the best location for ultimate recovery of oil from the leasehold estate. Thank you for your consideration in this matter.

Very truly yours,

Thomas W. Bachtell

TWB:tem 0880.24 Enclosures

cc: William C. Mitchell, Landman

### **DESIGNATION OF OPERATOR**

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE:

Salt Lake City, Utah

SERIAL NO.:

U-56186

and hereby designates

NAME: Address: Meridian Oil, Inc.

5613 D.T.C. Parkway

Englewood, Colorado 80111

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 38 South, Range 24 East, SLM Section 19: Lots 1, 2, E/2NW/4 San Juan County, Utah

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

PEGGY A. YATES

105 South Fourth Street Artesia, New Mexico 88210

August 12, 1986

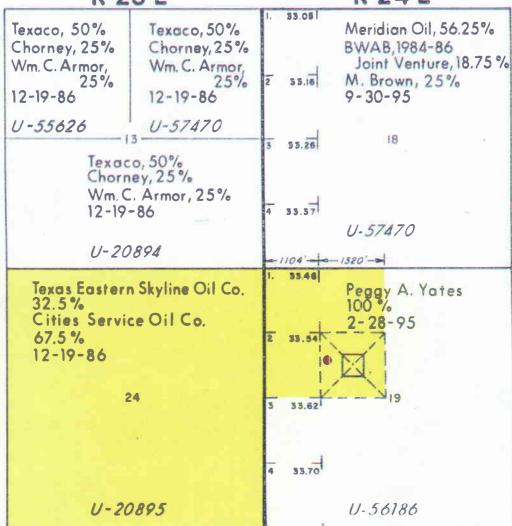
(Date

(Address)

### **EXHIBIT "A"**

R 23 E

R 24 E



LEGEND



MERIDIAN OIL / BWAB FARMIN ACREAGE

PROPOSED LOCATION: #22-19 HAVASU FEDERAL 1850' fnl, 1255' fwl of sec. 19, T 38 S - R 24 E

400 ft. "WINDOW" (center of the sesw, sec. 19, T385-R24E

# MERIDIAN OIL

J.G.S.Q
DRAFTER/QEOTECH

8/22/86
DATE

SAN JUAN COUNTY, UTAH

Scale: | "= 2,000"

DENVER

REVISED DATE

C.1.

38



## EXHIBIT "B"

R 24 E

LEGEND



5304

MERIDIAN OIL / BWAB FARMIN ACREAGE

PROPOSED LOCATION. #22-19 HAVASU FEDERAL 1850' fnl, 1255' fwl of sec. 19, T 38 S - R 24 E



400 ft. "WINDOW" (center of the seew, sec. 19, T385-R24E

15306

J.G.S.Q 8/22/86 DATE DENVER OFFICE LOC

SAN JUAN COUNTY, UTAH

9cele-1": 2,000

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HAVASU PROSPECT

#### MERIDIAN OIL INC.

LEASE NAME: 22-19 Havasu-Federal

LEASE NO. U-56186

LOCATION: SENW Section 19-38S-24E

> 1850' FNL - 1255' FWL San Juan County, Utah

Havasu Field

#### EIGHT POINT DRILLING PROGRAM

#### 1.& 2. Estimated Tops:

Morrison	Surface	
Entrada	762	
Navajo	945	fresh water
Chinle	1925	
Shinarump	2803	
Cutler	2925	
Hermosa	4763	t.
Upper Ismay	5695	oil
Top Porosity	5765	
A Shale	5827	
Lower Ismay	5848	
Desert Creek	5922	oil
Chimney Rock	6010	And the second s
Akah	6034	The state of the s
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	1 2 4 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	The state of the s
essure Control Equipment:	8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	THE PROPERTY OF THE PROPERTY O

#### 3. Pre

- a. A 2000 psi WP wellhead will be installed on the surface casing. A 3000 psi WP Annular preventer and 3000 psi WP double gate preventer equipped with blind and pipe rams will be nippled up on wellhead.
- b. BOP systems will be consistent with API RP 53. Annular preventer will be tested to 1500 psi against casing. Pipe and blind rams, choke line and manifold will be tested to 2000 psi against casing. Casing will be tested to 2000 psi prior to drilling float shoe. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventor controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

#### Casing program:

Anticipated cement tops will be reported as to depth, not the expected number of sacks. The San Juan Resource Area will be notified 1 day before running casing strings and cement.

STATE OF COLORADO ) ) ss. COUNTY OF ARAPAHOE )

TO WIT:

Now, this 8th day of September, 1986, comes the affiant herein, WILLIAM C. MITCHELL, being of lawful age and the first duly sworn, and does now depose and say:

That he is employed as a Landman with Meridian Oil Inc., and in said capacity is acquainted with the facts and allegations herein, and

That the plat attached hereto and made a part hereof as "Exhibit A" is accurate to scale and reflects pertinent data required pursuant to oil & gas conservation rule No. 302.1,

And further, that to his information and belief, that Peggy A. Yates owns current record title to 100% of the leasehold rights under the following described lands:

Township 39 South, Range 24 East Section 19: All

That Meridian Oil Inc. and its partner, BWAB Inc., have secured the drilling rights from Peggy A. Yates under that certain farmout agreement dated August 15, 1986 along with a Designation of Operator form (attached), and thereby control the operating rights in the leasehold interest under the following described lands in San Juan County, Utah:

Township 39 South, Range 24 East Section 19: NW/4

Further affiant sayeth not.

William C. Mitchell

Taken, sworn and subscribed to before me, a Notary Public in and for the County and State afore present states 8th day of September, 1986.

Beth Breithaupt, Notary Public

5613 DTC Parkway Englewood, CO 80111

Ho <b>l</b> e				Casi			
Size	Size	<u>Depth</u>	Weight	Grade	Thrd	Cond	Cementing Program
17-1/2	13-3/8	80	48#	H-40	ST&C	New	Redi-Mix to surface.
11	8-5/8	1,700	24#	K-55	ST&C	New	Single stage.  Cement to sfc w/320 sx "B" + 3% salt + 16% gel + .2% retarder & 110 sx "B" + 2% CaCl2.
7-7/8	5-1/2	6,200	15.5#	K−55	LT&C	New	Single stage. TOC @ 1500'. Caliper log + 20% excess. "B" + 16% gel + 3% salt + .4% retarder & "B" + 3% Kcl + .8% fluid loss.

#### 5. Proposed drilling mud program:

A water base mud system from surface to TD. Maximum anticipated mud weight is 9.3#/gallon.

CONFIDENTIAL INFORMATION

A mud logging unit will be on location from 3300' to TD.

#### 6. Testing program:

Lower Desert Creek - Possible Upper Ismay - Possible

#### Logging program:

Cal/GR/DLL/MSFL Base surface casing to TD (GR to surface)

Cal/GR/Sonic Base surface casing to TD (GR to surface displays)

Cal/GR/CNL/FDC 5200' to TD
Directional Survey Base 8-5/8" to TD

Dipmeter: If Desert Creek indicates productive.

#### Coring program:

#### None planned.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analysis, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. If requested, samples (cuttings, fluids, and/or gases) will be submitted to the District Manager.

#### 7. Anticipated abnormal BHP or BHT:

No abnormal BHP or BHT are expected in this well.

#### Potentially hazardous conditions anticipated:

No  $H_2S$  has been found, reported or is known to exist at these depths in this area.

#### 8. Anticipated Starting Dates and Notifications of Operations

The operator will contact the San Juan Resource Area at 801-587-2201, 48 hours before beginning any dirt work.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the San Juan Area Manager, a minimum of 24 hours before spudding. A Sundry Notice (Form 3160-5) will be sent within 24 hours after spudding, reporting the spud date and time. The Sundry will be sent to the District Manager. If the spudding is on a weekend or holiday, the Sundry will be submitted on the following regular work day.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329 "Monthly Report of Operations," starting with the month in which operations begin and continue each month until the well is physically plugged and abandoned. This report will be sent to the BLM District Office, P. O. Box 970, Moab, Utah 84532.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Resource Area in accordance with requirements of NTL-3A.

If a replacement rig is planned for completion operations, a Sundry Notice (Form 3160-5) to that effect will be filed, for prior approval of the District Manager. All conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergencies, verbal approval can be given by the District Petroleum Engineer.

If the well is successfully completed for production, then the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than 5 business days following the date on which the well is placed on production.

No well abandonment operations will begin without the prior approval of the District Manager. In the case of newly drilled dry holes or failures, and in emergencies, oral approval will be obtained from the District Petroleum Engineer. A "Subsequent Report of Abandonment" (Form 3160-5), will be filed with the District Manager, within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration.

Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the San Juan Area Manager, or the appropriate surface manager.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days or 50 MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The following information will be permanently beaded-on with a welding torch: Fed, well number, location by 1/4 1/4 section, township and range, Lease number.

A first production conference will be scheduled within 15 days after receipt of the first production notice. The San Juan Area Manager will schedule the conference.

Other: A separate rig will be used for completion operations.

The following may be inspected and/or witnessed:

- 1. The cementing and testing of surface casing.
- 2. (Dry Hole) Setting and testing of surface casing shoe plug.
- 3. (Depleted Producer) The setting and testing of plugs across the producing horizon and if applicable, the surface casing shoe plug and/or annulus (casing to formation) squeeze jobs.

Notify the San Juan Resource Area (Mike Wade) one day or on dry hole as soon as possible prior to the above at (801) 587-2141 (Home) (801) 587-2026 or if unable to reach Mike, call Moab District office Greg Noble at (801) 259-6111 (Home) (801) 259-8811.

#### B. THIRTEEN POINT SURFACE USE PLAN

#### 1. Existing Roads (Yellow)

- a. Location of proposed well in relation to town or other reference point: 5 miles northwest of Hatch Trading Post.
- b. Proposed route to location. (See attached Exhibit "1").
- c. Existing and new access shall be maintained in good or better condition.
- d. An encroachment permit will be obtained from the San Juan County Road Dept., (801) 587-2231, ext. 43.

#### 2. Planned Access Roads (Blue)

- a. The maximum total width will be 25 feet.
- b Maximum grade is 0%.
- c. There will be no turnouts.
- d. Road is centerline flagged.
- e. Road will be drained as needed.
- f. If well is drilled during wet winter conditions, surface materials may be required to avoid maintenance problems.

Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance by the San Juan Area Manager.

The access road will be water barred or brought to Class III Road Standards within 60 days of dismantling of the drill rig. If this time frame cannot be met, the San Juan Area Manager will be notified so that temporary drainage control can be installed along the access road.

The Class III Road Standards which ensure drainage control over the entire road through the use of natural, rolling topography; ditch turnouts; drainage dips; outsloping; crowning; low water crossing; and culverts will be determined at the appropriate field inspection.

#### Location of Existing Wells (1 mile radius)

- a. Existing wells in the area are shown on attached Exhibit "1".
- 4. Location of Existing and/or Proposed Facilities if Well is Productive

Battery facility is shown on attached Exhibit "4".

All permanent (on site for 6 months or longer) above ground facilities (including pump jacks) will be painted a flat, nonreflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain 5-State Interagency Committee. All facilities will be painted within 6 months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The color will be Desert Brown.

All flowlines will be buried parallel to existing roads unless authorized otherwise by BLM.

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the battery.

All loading lines will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place before any deliveries. Tests for meter accuracy will be conducted monthly for the first 3 months on new meter installations and at least quarterly thereafter. The San Juan Area Manager will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the San Juan Area Manager. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

#### 5. Location and Type of Water Supply

All water needed for drilling purposes will be obtained at a point: N 798.06 ft & E 1876.41 ft from SW corner of Section 28, T38S, R25E (BLM artesian well) or will be hauled by a commercial water hauler from Blanding.

Use of water for this operation will be approved by obtaining a temporary use permit from the Utah State Engineer, (801) 637-1303 and by receiving permission from the landowner or surface management agency to use the land containing the water source.

#### 6. Source of Construction Materials

Native soil materials from drilling location and access trail, which is available, will be used. Any additional materials needed will be hauled in from authorized commercial sources.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

#### 7. Methods for Handling Waste Disposal

The reserve pit will be lined with commercial bentonite sufficient to prevent seepage. At lease half of the capacity will be in cut.

Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.

A trash pit will be constructed near the mud tanks and dug at least six feet into solid undisturbed material. It will be totally enclosed with a fine wire mesh before the rig moves in. The road and pad will be kept litter free.

A burning permit is required for burning trash between May 1 and October 31. This can be acquired by contacting the State fire Warden, John Baker, at (801) 587-2705.

Produced waste water will be confined to a (lined/unlined) pit for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NTL-2B).

#### 8. Ancillary Facilities

Camp facilities will not be required.

#### 9. Well Site Layout

Rig layout is shown on attached Exhibit "9a".

Cuts and fills are shown on attached Exhibit "9b".

The top 6 inches of soil material will be removed from the location and stockpiled on the southeast side of well pad. Topsoil along the access will be reserved in place.

Access to the well pad will be from the northwest corner.

#### 10. Reclamation:

- a. Immediately on completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be disposed of in the trash pit and will then be compacted and buried under a minimum of two feet of compacted soil.
- b. The operator/holder or his contractor will contact the San Juan Resource Area office in Monticello, Utah, (801) 587-2201, 48 hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.
- c. Before any dirt work to restore the location takes place, the reserve pit must be completely dry.
- d. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts.
- e. The stockpiled topsoil will be spread evenly over the disturbed area.

  All disturbed areas will be ripped \_\_\_\_12\_\_ inches deep with the contour.
- f. Water bars will be built as follows to control erosion.

  Grade

  Spacing

	<u> </u>			
2%	Every 200 feet			
2-4%	Every 100 feet			
4-5%	Every 75 feet			
5+%	Every 50 feet			

g. Seed will be broadcast between October 1 and February 28 with the following prescription. A harrow or similar implement will be dragged over the area to assure seed cover.

3 lbs/acre Indian ricegrass (Oryzopsis hymenoides)

3 lbs/acre Galleta (Hilaria jamesii)

3 lbs/acre crested wheatgrass (Agropyron desertorum)

2 lbs/acre Fourwing saltbush (Atriplex canenscens)

- h. After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed areas. The access will be blocked to prevent vehicular access.
- i. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed as described in the reclamation section. Enough topsoil will be kept to reclaim the remainder of the location at a future date. This remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.

11.	Surface	Ownership:	Federal	
	Mineral	Ownership:	Federal	

#### 12. Other Information

There will be no change from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be used. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.2.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.

The dirt contractor will be provided with an approved copy of the surface use plan.

If subsurface cultural materials are exposed during construction, work in that spot will stop immediately and the San Juan Resource Area Office will be contacted. All people who are in the area will be informed by the operator/holder that they are subject to prosecution for disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will be done by a BLM approved archaeologist only if damage occurs.

This permit will be valid for a period of one year from the date of approval. After permit termination a new application will be filed for approval for any future operations.

Your contact with the District Office is: Greg Noble
Office Phone: 801-259-6111 Address: P. O. Box 970, Moab, UT 84532

Resource Area Manager's Address and contacts: Address: P. O. Box 7, Monticello, UT 84535

Your contact is: Rich McClure
Office Phone: 801-587-2141

### 13. Lessee or Operator's Field Representative and Certification

Meridian Oil Inc. r. O. Box 1855

Billings, Montana 59103

1. Johnny L. Wright, Drilling Supt. 406-256-4175 406-252-2889
2. Bill Lloyd, Drilling Engineer 406-256-4129 406-252-2328
3. John Pulley, Completion Supt 406-256-4124 406-259-6156
4. Barry Winstead, Sr. Drilling Engineer 406-256-4030 406-656-7521

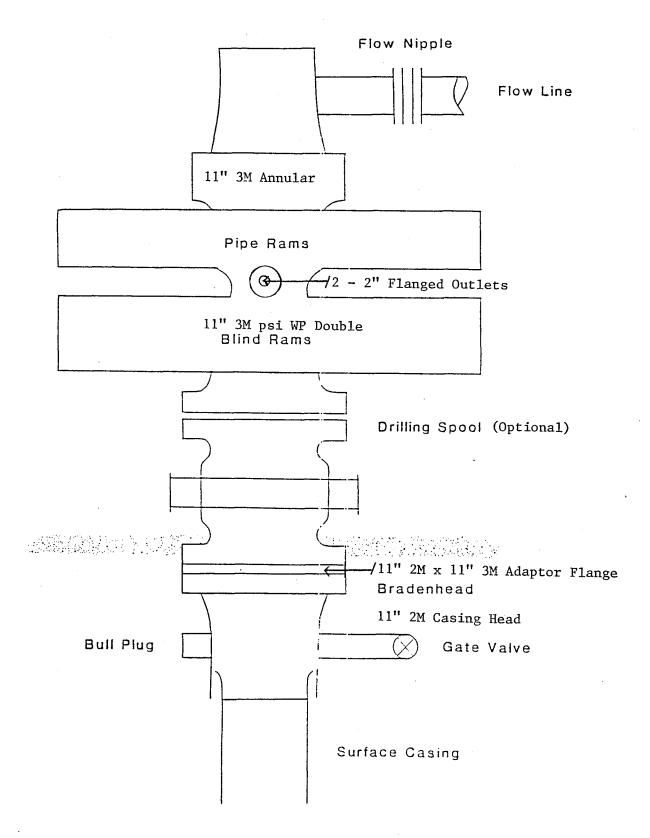
#### CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct, and, that the work associated with the operations proposed herein will be performed by Meridian Oil Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filling of a false statement.

Barry J. Winstead

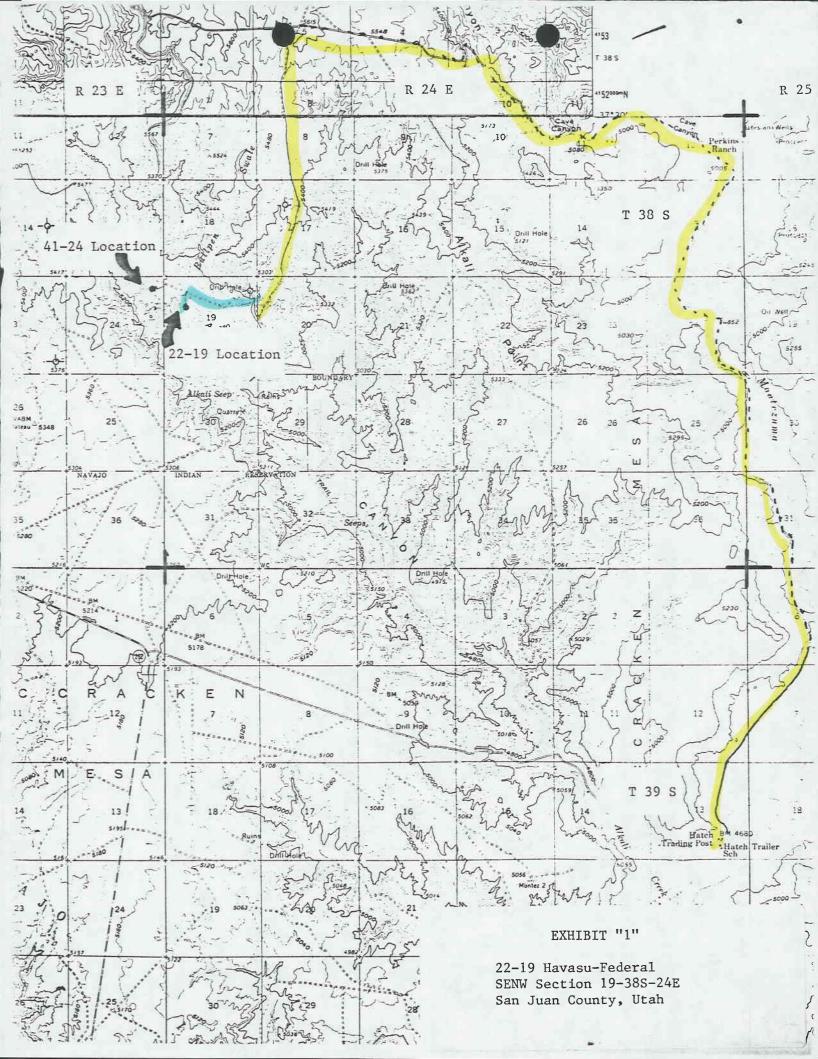
Sr. Drilling Engineer

ssn



Series 900 Double Gate B.O.P., rated at 3000 psi Working Pressure.

When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.



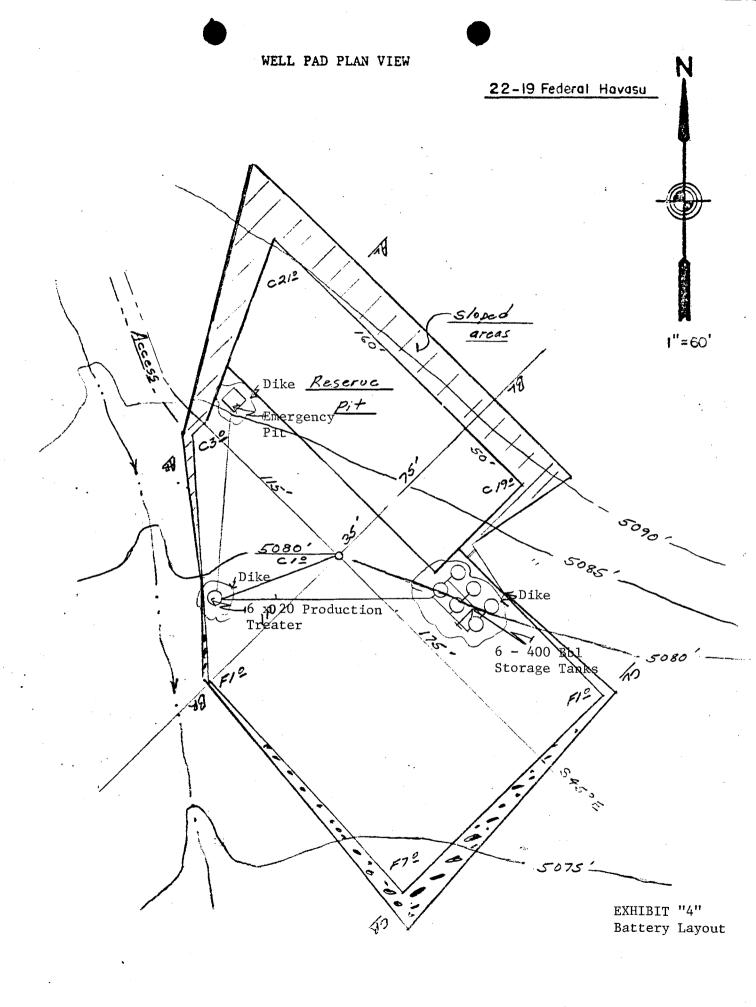
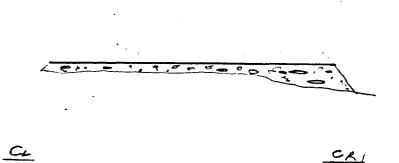
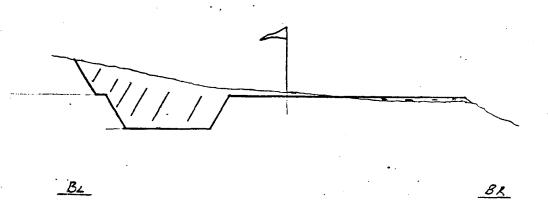


EXHIBIT "9a" Rig Layout Cut ////
Fill 5.5.5

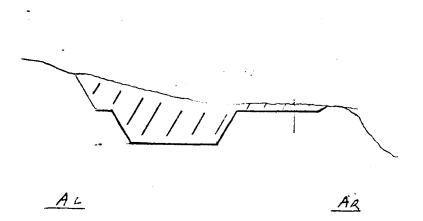
Scales: l'' = 60' H.l''=30' V.

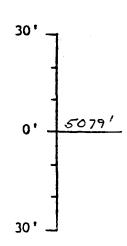


30' 5079' 0'-30'-



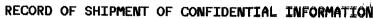
30" 50791 30' \_





DUPLICATE COPIES OF WELL HISTORY INFORMATION

#### TRANSMITTAL LETTER



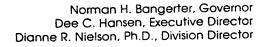


TO: Utah Dept	. of Natural Resources	FROM: C. L. Crawley
Division	of Oil, Gas and Mining	Name
4241 Stat	e Office Building	Sr. Staff Geologist
Salt Lake	City, UT 84114	Title
Attn: Mr	. Ron Firth	DATE: <u>December 2, 1986</u>
		VIA: Mail
RE: All inf	ormation pertains to the	Havasu Federal #22-19, San Juan
	ah, 19-38S-24E / API 43-(	
QUANTITY	DESCRIPTION	
1	Compensated Density -	Compensated Neutron / Run #1
1	Dual Laterolog / Run #	<i>‡</i> 1
1	B. H. C. Sonic Log / F	Run #1
1	Schlumberger - DST Rep	
1	Rocky Mountain Geo-Eng	gineer Mud Log and Report
***************************************		
***************************************		
INSTRUCTIONS:	Please acknowledge receit the copy.	pt promptly by signing and returning
RECEIVED BY:		DATE:
		the Havasu Federal #22-19, San Juan
Co	., Utah, 19-38S-24E / API	43-037-31278

## COMEDEMAL

0 2305

072301 off conf. OPERATOR Meridian Oil Inc. DATE 9-15-86 WELL NAME Harasu Federal 22-19 SEC SE NW 19 T 385 R 24E COUNTY San Juan Juan 43-037-31278 API NUMBER TYPE OF LEASE CHECK OFF: PLAT BOND **NEAREST** WELL. LEASE FIELD POTASH OR CIL SHALE PROCESSING COMMENTS: Exception requested APPROVAL LETTER: SPACING: 203 302 UNIT 302.1 CAUSE NO. & DATE STIPULATIONS:





355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

September 18, 1986

Meridian Oil Inc. P. O. Box 1855 Billings, Montana 59103

#### Gentlemen:

Re: Well Name: Havasu Federal 22-19 - SE NW Sec. 19, T. 38S, R. 34E 1850' FNL, 1255' FWL - San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Rule 302.1, 0il and Gas Conservation General Rules, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

In addition, the following actions are necessary to fully comply with this approval:

- Spudding notification to the Division within 24 hours after drilling operations commence.
- 2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
- 3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.

y way good north of got box at

4. Compliance with the requirements and regulations of Rule 311.3, Associated Gas Flaring, Oil and Gas Conservation General Rules.

Page 2

Meridian Oil Inc.

Well Name: Havasu Federal 22-19

September 18, 1986

- 5. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at the drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable State and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 533-6163.
- 6. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31278.

Sincerely,

Associate Director, Oil & Gas

as
Enclosures
cc: Branch of Fluid Minerals
D. R. Nielson
8159T

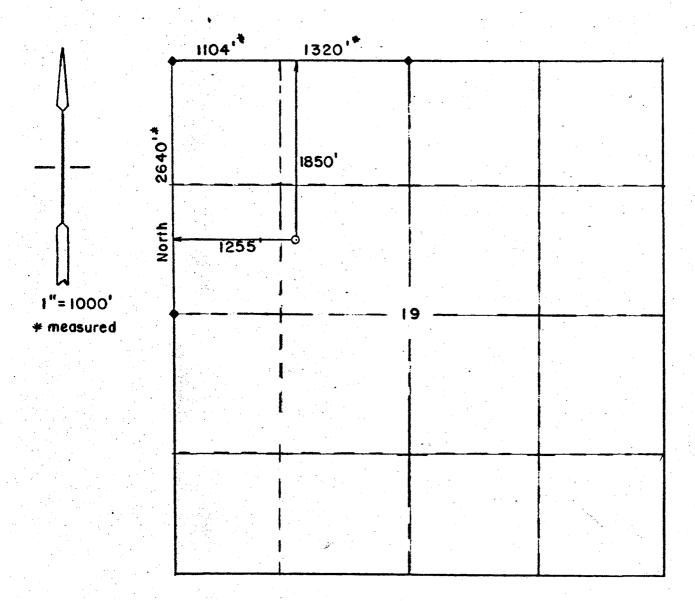
## **UNITED STATES**

SUBMIT IN TE (Other instructions on reverse side)

Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985

DEPARTMENT OF THE INTERIOR						5. LEASE DESIGNATION	AND SERIAL NO
BUREAU OF LAND MANAGEMENT 091903						U-56186	THE DESIGN NO.
APPLICATIO	N FOR PERMIT	TO DRILL,	DEEPE	N, OR PLUG I	BACK	6. IF INDIAN, ALLOTTES	S OR TRIBE NAME
1a. TYPE OF WORK  DR b. TYPE OF WELL	ILL XX	DEEPEN		PLUG BA	.ck 🗆	7. UNIT AGREEMENT N	
	VELL OTHER			NGLE X MULTI	PLE	8. FARM OR LEASE NAI	-
	DIAN OIL INC.	·				Havasu-Fede	ral
3. ADDRESS OF OPERATOR						22-19	
P. 0	. Box 1855, Bil	lings, MT	59103			10. FIELD AND POOL, O	R WILDCAT
4. LOCATION OF WELL (R At surface	deport location clearly and	l in accordance wi	th any S	tate requirements.*)		Havasu	
SENW At proposed prod. 201	(1850' FNL - 1	255' FWL)				11. SEC., T., R., M., OR I AND SURVEY OR AB	BLK. LEA
	Same					Section 19,	T38S, R24E
	AND DIRECTION FROM NEA				· · · · · · · · · · · · · · · · · · ·	12. COUNTY OR PARISH	
O M1 15. distance from prop	les NW of Hatch	Trading Po				San Juan	Utah
LOCATION TO NEARES PROPERTY OR LEASE 1 (Also to nearest dr)	T LINE, FT. g. unit line, if any)	1255'	ł	27.68		OF ACRES ASSIGNED HIS WELL 40	1
18. DISTANCE FROM PROI TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED, US LEASE, FT.	. —	19. PR	6200 6200	! _	er or cable tools	
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.) 5080' GL (ungr	aded), 5079	' GL	(graded)		September 2	
23.	41 g	PROPOSED CASI	NG AND	CEMENTING PROGR	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00T	SETTING DEPTH		QUANTITY OF CEMEN	(T
17-1/2	13-3/8	48#		80'		lix to surface	
	<u>8-5/8</u>	24#		1,700'	Single	stage. Cmt to	sfc w/320 s
					% 110	% salt, 16% ge sx "B" + 2% Ca	1 & .2% rtrd1
7-7/8	5-1/2	15.5#		6,200'		stage. TOC @	
					log +	20% excess. "	B" + 16% gel
	5	DIP AIR	111818			t, .4% rtrdr & fluid loss.	"B" + 3% Kc
		いたいら	17 /A	JP III			
		0.500	m 400		- The same of the	WOLTAGE	
	<b>~</b>	SEP 2	5 198	1 CONFIDENTI	. INIF	ORMANO	
		ופועום	ON O	TITIDENT	AL IIV	THE PERSON NAMED OF THE PE	
011	and Gas Order #	L OIL GAS	& MIN	INCONFIDE.	Parameter.		
Atı	tachments:	3		The same of the sa		A	
	Survey Plat					•	18 19 Emily 19 19 19 18
	Eight Point Dri			•			
N ABOVE SPACE DESCRIBE one. If proposal is to	Thirteen Point S PROPOSED PROGRAM: If p drill or deepen directiona	proposal is to deer	en or pl	ug back, give data on p a subsurface locations as	resent produ	uctive zone and proposed and true vertical depth	d new productive
reventer program, if an	y		<del></del>		·	•	
B	A. C. londo	<b>)</b>	Sr	. Drilling Eng	incom	0/	'a 101
(This space for Eagle	rel or State office was	TIT	TE ST	· Pritting cug	THEEL	DATE	7/00
t ruis space for rede	fal or State office use)			•			
PERMIT NO.			Acting	APPROVAL DATE	<del></del>		
APPROVED BY	neth V. Rhea	TIT		BISTRICT MANAGI	ER ·	· · · · · · · · · · · · · · · · · · ·	2 4 1986
CONDITIONS OF APPROV			-			DATE	***
FLARING OF	VENTING OF ECT OF NTL 4-A		C	ONDITIONS C	F APP	ROVAL ATTAC	HED

GAS IS SUBJECT OF NTL 4-A **DATED 1/1/80** 



WELL LOCATION DESCRIPTION:

MERIDIAN OIL 22-19 FEDERAL HAVASU 1850'FN & 1255'FW SECTION 19, T38S, R24E, SLM SAN JUAN COUNTY, UTAH GROUND ELEVATION 5080'

The above plat is true and correct to the best of my knowledge and belief.

REFERENCES:

1440'FN & 1210'FW 5105' GRD. 200'East 5096' GRD.

GERALD G. HUDDLESTON Land Surveyor Vic of

Meridian Oil Inc. Well No. Havasu-Federal 22-19 Sec. 19, T. 38 S., R. 24 E. San Juan County, Utah Lease U-56186

#### B. THIRTEEN POINT SURFACE USE PLAN

- 1. Planned Access Roads
  - a. Maximum grade will be 10%.
  - b. No blade cutting will be allowed where the access road crosses the Pure Oil Pipeline in T. 38 S., R. 24 E., Section 19: NENE (i.e., the road crossing this pipeline right-of-way will be constructed with fill).

Pure Oil will be contacted prior to road construction over the pipeline (Rick Costanza, (801) 686-2311 or (801) 259-2023).

### DIVISION OF OIL, GAS AND MINING

	SPUDDING	INFURM	ALION	43-037-31278
NAME OF COMPANY: MERIDIA	N OIL			
WELL NAME: #22-19 HAVASU				
SECTION 19 TOWNSHIP	38S	PANGE_	24E	COUNTY SAN JUAN
DRILLING CONTRACTOR AZTE	C DRILLI	NG		
RIG #301				
SPUDDED: DATE 9-30-86		٠		
TIME	•			
How_rotary				1
DRILLING WILL COMMENCE				
REPORTED BY KEITH MUIR	HEAD			
TELEPHONE # 678-2278 rm	. 103	W. T. d	•	
DATE 9-30-86	•		SIGNED	JRB

Form 3160-5 (November 1983)  UNDED STATES SUBMIT IN TRIPLETE (Other instructions on re-	Form approved. Budget Bureau No. 100 Expires August 31, 198	5
(Formerly 9-331) DEPARTMENT OF THE INTERIOR verse aide)	5. LEASE DESIGNATION AND SERI	IAL NO.
BUREAU OF LAND MANAGEMENT	U-56186 6. IF INDIAN, ALLOTTER OR TRIB	
SUNDRY NOTICES AND REPORTS ON WELLS  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  Use "APPLICATION FOR PERMIT—" for such proposals.)		IS NAME
OIL GAS WELL OTHER	7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR	8. FARM OR LEASE NAME	
MERIDIAN OIL INC.	Havasu-Federal	
3. ADDRESS OF OPERATOR	9. WELL NO.	
P. O. Box 1855, Billings, MT 59013	22–19	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  See also space 17 below.)	10. FIELD AND POOL, OR WILDCA	iT.
At surface SENW (1850' FNL - 1255' FWL)	Havasu (Wildcat)	
SENW (1030 FNL - 1233 FWL)	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
	Section 19-38S-24	_
14. PERMIT NO. 15. BLEVATIONS (Show whether DF, RT, GR, etc.) 43-037-31278 5092 KB	12. COUNTY OR PARISH 13. ST. San Juan Uta	_
+3-037-31270 3092 RB	Sail Suall Cta	
16. Check Appropriate Box To Indicate Nature of Notice, Report, or C	Other Data	
NOTICE OF INTENTION TO:	JENT REPORT OF:	
TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF	REPAIRING WELL	
FRACTURE TREAT MULTIPLE COMPLETE FRACTURE TREATMENT	ALTERING CASING	
SHOOT OF ACIDIZE ABANDON* SHOOTING OF ACIDIZING	ABANDONMENT*	
REPAIR WELL CHANGE PLANS (Other) Spud Repor	rt	X
(Other) (Norg: Report results Completion or Recognil	of multiple completion on Well etion Report and Log form.)	
Aztec, Rig #301, spudded well @ 3:00 PM September 30, 1986.		
13. I hereby certify that the foregoing is true and correct SIGNED TITLE Sr. Operations Technic:  (This space for Federal or State office use)	ian <sub>DATE</sub> 10/1/86	
APPROVED BY TITLE	DATE	

Form 3160-5 (November 1983) (Formerly 9-331)

### DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPI instructions (Other

Form approved. Budget Bureau No. 1004-0135 Expires August 31, 1985

₿.	IF	IND	IAN,	ALLOTTE	E OR	TRIBE	NAME	:
	U-	-56	186	5				
5.	LE	A S E	DES	GNATION	AND	BERIA	L NO.	

SUNDRY	<b>NOTICES</b>	AND	REPORTS	ON	WELLS
			A		- 4140

(Do not use this form for proposals to drill or to deepen or plug back to a Use "APPLICATION FOR PERMIT—" for such proposals.)

7. UNIT AGREEMENT NAME

	WELL	E.	WELL
2,	NAME	OF OP	ERATOR

3. ADDRESS OF OPERATOR

OIL

MERIDIAN OIL INC.

43.037, 31278

8. FARM OR LEASE NAME

Havasu-Federal 22 - 19

9. WELL NO.

SUBSEQUENT REPORT OF :

P. O. Box 1855, Billings, MT LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)
At surface

10. FIELD AND POOL, OR WILDCAT Havasu (Wildcat)

SENW (1850' FNL - 1255' FWL)

OTHER

11. SEC., T., R., M., OR BLK. AND SURVEY OR ARMA

14. PERMIT NO. 43-037-31278 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5092' KB

Section 19-38S-24E

12. COUNTY OR PARISH 13. STATE San Juan Utah

16.

#### Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PULL OR ALTER CASING

WATER SHUT-OFF FRACTURE TREATMENT REPAIRING WELL ALTERING CASING

FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL

TEST WATER SHUT-OFF

MULTIPLE COMPLETE ABANDON\* CHANGE PLANS

SHOOTING OR ACIDIZING (Other) Spud Report ABANDONMENT\*

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) (Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Aztec, Rig #301, spudded well @ 3:00 PM September 30, 1986.





DIVISIONOF OIL, GAS & MINING

13.	i hereby certify that the foregoing is true and correct SIGNED	TITLE _	Sr. Operations Technician	DATE 10/1/86
	(This space for Federal or State office use)			
	APPROVED BY	TITLE _		DATE

\*See Instructions on Reverse Side

## STATE OF UTAH

	RTMENT OF NATU		S	rse side)	
	VISION OF OIL, GA	S, AND MINING	111050	U-561	86
SUNDRY N (Do not use this form for p	OTICES AND R	EPORTS ON V	WELLS a different reservoir.		, ALLOTTES OR TRIBE N
l.	THEATION FOR PERMIT	for such propossis	.)	N/A	BMAN THEMS
WELL X WELL OTH	32			N/A	
2. NAME OF OPERATOR				S. PARM OR	LEASE NAME
Meridian Oil Inc.					u-Federal
P. O. Box 1855, Bi	:11: wm 50	102		9. WELL NO. 22-19	
4. LOCATION OF WELL (Report locat		103	equirements.*		ID POOL, OR WILDCAT
See also space 17 below.) At surface	•		-4	Havas	u (Wildcat)
SE NW (1850' F	NL - 1255' FWL)			11. asc., 7.,	E., M., OR BLE. AND T OR AREA
DD 11W (1030 11	1233 IND)			Track.	
14. PERMIT NO.	1 to Bravious /f	lhow whether or, ar, ga,	N. Constitution of the Con	<b>(1)</b> (2) (1)	on 19-38S-24E
43-037-31278	5092		are)	San J	
			11. 1193		dan   Clan
Cneci	k Appropriate Box T	o Indicate Nature	• "		
NOTICE OF	OF MOTENETHE	CANFIDENT		BARQUENT ABPORT O	<b>?</b> :
TEST WATER SHUT-OFF	PULL OR ALTER CAST	Nº 100	WATER SHUT-OFF	F	EPAIRING WELL
PRACTURE TREAT	MULTIPLE COMPLETE	To the same of the	PRACTURE TREATMENT	<del></del>	LTERING CASING
SHOOT OR ACIDIZE	ABANDON® CHANGE PLANS		SHOUTING OR ACIDIZING	^	BANDONMENT <sup>®</sup>
(Other) Flare Gas	CHAPTER FEATURE	x	(Other)(Nors: Report re	esults of multiple completion Report a	mpletion on Well
The captioned wel pressure build-up should be complete	test. The thr	ee-day stabil:	completion and ized GOR test	is presentl required by	y SI for a the state
Meridian Oil herel period extending of second build-up to development drill	by requests app until January 1 est to determin	roval to flar 4, 1987. We	intend to produ	uce the well	and perform
		UIS/CISIN	Will with		
		M. C. C.			•
		DCT 211			
		001.011	38b 😂		
		DIVISION OIL. GAS & M	OF INING	•	
			•		
18. I hereby certify that, the fores	oing is true and correct				10/100/100
sign <del>ad</del>	T Checker	TITLE Sr. S	taff Engineer	DATE	10/30/86
(This space for Federal or Sta	ite office use)	MYDY TO			Y THE STATE
APPROVED BY	., IF ANT:	TITLE		UT UTAM D	I <del>VISION OF</del>

Federal approval of this action is required before commencing operations.

\*See Instructions on Reverse Side

OIL, GAS, AND MINING DATE) //-

Form 3160-5 (November 1983) (Formerly 9-331)	UNITED STATES PARTMENT OF THE I	SUBMIT IN TRIPLIC (Other Instructions of NTERIOR verse side)	Expires Aug	au No. 1004-0135
<u> </u>	BUREAU OF LAND MANAC	SEMENT	U-5618	
	NOTICES AND REPO	ORTS ON WELLS or plug back to a different reservoir. or such proposals	6. IF INDIAN, ALLOY	TEE OR TRIBE NAME
1.		THE RESERVE	7. UNIT AGREEMENT	NAME
OIL X GAS CONTROL OF C	OTHER		N/A	
2. NAME OF OPERATOR		NOV 05 1986	8. FARM OR LEASE	NAME
MERIDIAN OIL I	NC.			ı-Federal
3. ADDRESS OF OPERATOR  D O Box 1955	, Billings, MT 59103	, DIVISION OF	9. WELL NO.	
4. LOCATION OF WELL (Report le	ocation clearly and in accordance	with one State contestinates	22-19 10. FIELD AND POOR	. OR WILDCAT
See also space 17 below.) At surface		MO	1	ı (Wildcat)
SENW (1850' FN	L - 1255' FWL)	WFORMATION	11. SEC., T., R., M., SURVEY OR A	DE BLE. AND
	A STATE OF THE STA	MACH	Section	on 19-38S-24E
14. PERMIT NO. 43-037-31278	15. ELEVATIONS (SHOP)	whether or, RT, GR, etc.)	12. COUNTY OR PAR	. 1
43-037-31278	EDENTS	192' KB	San Juan	Utah
	eck Appropriate Box To Inc	licate Nature of Notice, Report	or Other Data UBBEQUENT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRI	IG WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT		G CASING
SHOOT OR ACIDIZE	_ ABANDON*	SHOOTING OR ACIDIZIN		
REPAIR WELL	CHANGE PLANS		s Report - Octoberesults of multiple completi	
(Other)	STED OPEN TROVE (Clean)	Completion or R	ecompletion Report and Los	form 1
Well was spud @ 3:00 PM	1 9-30-86. Ran 2 its	pertinent details, and give pertinent face locations and measured and true at 13-3/8" 61# K-55 ST&C	8rd csg set 0	75 101 Cm+4
or, herd ov. hill co	) 5964 , ran DST #1 (	T&C csg, set @ 1698.40' (5683' - 5712') U. Isma 40° API @ 60°F. Sample	v Times 10-152	DIIM 1200E
TOO har, 1990 GG OIT,	2.95 cig. HP 2/38-2	2736; FP 1229-1632; SIP J-55 csg, set @ 6072'	2189 Reached	rn 60741 a
n · Wereasen tik 6 ):	OU PM IU-12-86. MIN	(U Pool Well Svc 10-158)	6 Tractall ****111	o utu bood
GTTTEG 100 JES 7-110	U.J#/IL ord J-55 fbg	r. Tagged PRTD 0 50761	Dowf T Tomore	/E00/1 E00/1\
A Johre ner hvr 6 70	OL • ACIGIZE W/ZUU	gal 15% Hel Released	DED CALCIDE A	3 E0001 D
. ay cure our rob CIDE (M	EM LDID (6 DODO, 1 LE	Prt Ismay (5768'-5819')	TT// ione TIII.	-/170 4 0 7/0
ng co popo . Wciaised	W/IUU gal 15% Hcl.	Well kicked off fluo	F An hah for 1	Lan OT to to
TICO COOL TUCTITUTES IN	// 40/ 00 · I LOW TESTEC	1 (5/68'=5800''O £1±4 8'	77 QK BA Q 7A DI	T C LEO MACORIO
erf U. Ismay (5682' -	5762') w/4 ignf Sat	60°F. Kill well w/2% l pkr. Acidize w/100 g	Kcl wtr. Set RB	P & pkr @ 5767.
Teger winding 3/01 .	Swap test. Pull sw	7ab trom 2000' Wall a	ama in floreina	T2411
pegan recording TTOM	LEST G IO:OO AM MST	10/24/86 Fluid 725 RA	28 BU C 527 MO	20/10 1/2 1
TIOT CRE GOR 12/11 G	LY 39 API (0 b() F.	Killed well w/29 Kcl w	tr Don 171 dea	2-7/8" I-55
bg,set @ 5596', set pk	r @ 5623'. Install	x-mas tree. Flow test:	ing 10/31/86.	
		the control of the co		
eak contained on locat	red $10/31/86$ in top ion. Witnessed by R	hammer union of 3 sectaich McClure, BLM, Montio	ion lubricator. cello, UT.	Oil loss from
13. i hereby certify that the for	egoing is true and correct			
SIGNED LIGHT		Sr. Operations Techn	ician DATE	11/3/86
(This space for Federal or S	tate office use)			
APPROVED BY	TIT	LIE	DATE	
CONDITIONS OF APPROVA	L. IF ANY:			

\*See Instructions on Reverse Side

SUNDRY NOTICES AND REPORTS ON WELLS  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  Use "APPLICATION FOR PERMIT—" for such proposals.)  1.  OIL	REPAIRING WELL ALTERING CASING ABANDONMENT®
SUNDRY NOTICES AND REPORTS ON WELLS  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  Use "APPLICATION FOR PERMIT—" for such proposals.)  1.  OIL	N/A  7. UNIT AGREEMENT NAME N/A  7. FARM OR LEASE NAME Havasu-Federal 10. WELL NO. 22-19 10. FIELD AND FOOL, OR WILDCAT Havasu (Wildcat) 11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA  Section 19-38S-24E 12. COUNTY OR PARISH 13. STATE San Juan Utah  NOT Data  TEMPORT OF:  REPAIRING WELL ALTERING CABING ABANDONMENT*
OIL WELL WELL OTHER  2. NAME OF OPERATOR  MERIDIAN OIL INC.  3. ADDRESS OF OPERATOR  P. O. BOX 1855, Billings, MT 59103  4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  SENW (1850' FNL - 1255' FWL)  14. PERMIT NO.  43-037-31278  15. ELEVATIONS (SPIN Telebour).  AT SUPPLY OF INTERTON OF THE POLICY OF THE PRACTURE TREAT  SHOOT OF ACIDIZE  REPAIR WELL  (Other)  17. DESCRIPE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, in proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical of the proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical of the proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical of the proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical of the proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical of the proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical of the proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical of the proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical of the proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical of the proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical of the proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical of the proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical of the proposed work.	N/A  3. FARM OR LEASE NAME  Havasu-Federal  5. WELL NO.  22-19  10. FIELD AND FOOL, OR WILDCAT  Havasu (Wildcat)  11. SEC., T., R., M., OR BLK. AND  SURVEY OF AREA  Section 19-38S-24E  12. COUNTY OR PARISH 13. STATE  Utah  MET Data  TERPORT OF:  REPAIRING WELL  ALTERING CASING  ABANDONMENT*
MERIDIAN OIL INC.  3. ADDRESS OF OPERATOR  P. O. BOX 1855, Billings, MT 59103  4. LOCATION OF WELL (Report location clearly and in accordance with any Brain regular modes. See also space 17 below.)  At surface  SENW (1850' FNL - 1255' FWL)  14. PERMIT NO.  43-037-31278  16. Check Appropriate Box To Indicase Nature of Notice, Report, or Oth NOTICE OF INTENSION FOR ACIDIZE ABANDON*  FRACTURE TREAT  SHOOT OR ACIDIZE  REPAIR WELL  (Other)  17. DESCRIPE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, in proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical connections.	Havasu-Federal  D. WELL NO.  22-19  10. FIELD AND FOOL, OR WILDCAT  Havasu (Wildcat)  11. SEC., T., R., M., OR BLE. AND  SURVEY OF AREA  Section 19-38S-24E  12. COUNTY OR PARISH 13. STATE  San Juan Utah  MET Data  TREPAIRING WELL  ALTERING CABING  ABANDONMENT*
MERIDIAN OIL INC.  3. ADDRESS OF OPERATOR  P. O. Box 1855, Billings, MT 59103  4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  See also space 17 below.)  At surface  SENW (1850' FNL - 1255' FWL)  14. PERMIT NO.  43-037-31278  15. ELEVATIONS (SHOW, whether of, st., or, etc.)  16. Check Appearate Box To Indicate Nature of Notice, Report, or Oth  NOTICE OF INTENSION TO:  SUBSEQUENT  TEST WATER SHUT-OFF  FRACTURE TREAT  MULTIPLE COMPLETE  SHOOT OR ACIDIZE  ABANDON*  CHANGE PLANS  (Other)  17. DESCRIPE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, in proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical connection the work.)*	Havasu-Federal  22-19  0. FIELD AND POOL, OR WILDCAT Havasu (Wildcat)  11. SEC., T., R., M., OR BLE. AND SURVEY OF AREA  Section 19-38S-24E  12. COUNTY OR PARISH 13. STATE San Juan Utah  MER Data  TREPAIRING WELL ALTERING CABING ABANDONMENT*
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P. O. Box 1855, Billings, MT 59103  4. Location of Well (Report location clearly and in accordance with any State regularity of See also space 17 below.)  At surface  SENW (1850' FNL - 1255' FWL)  14. PERMIT NO.  43-037-31278  15. ELEVATIONS (SHOUT bether off, RT, GR, etc.)  16. Check Appropriate Box To Indicase Nature of Notice, Report, or Oth  NOTICE OF INTENSION OF:  FRACTURE TREAT  SHOOT OR ACIDIZE  REPAIR WELL  (Other)  17. DESCRIPE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, in proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical contents to this work.)	22-19 10. FIELD AND FOOL, OR WILDCAT HAVASU (Wildcat) 11. SBC., T., R., M., OR BLK. AND SURVEY OR AREA  Section 19-38S-24E 12. COUNTY OR PARISH 13. STATE San Juan Utah  MET Data  TREPORT OF:  REPAIRING WELL ALTERING CABING ABANDONMENT*
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See also space 17 below.)  At surface  SENW (1850' FNL - 1255' FWL)  14. PERMIT NO.  43-037-31278  15. ELEVATIONS (STATE Whether of, RT, GR, etc.)  16.  Check Appropriate Box To Indicate Nature of Notice, Report, or Oth  NOTICE OF INTENSION OF:  BUBBEQUEN  TEST WATER SHUT-OFF  FRACTURE TREAT  MULTIPLE COMPLETE  SHOOTING OR ACIDIZING  REPAIR WELL  (Other)  17. DESCRIPE PROPUSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, in proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical of this work.)*	Havasu (Wildcat)  11. SEC., T., R., M., OR BLK. AND SURVEY OF AREA  Section 19-38S-24E  12. COUNTY OF PARISH 13. STATE  Utah  MET Data  TERPORT OF:  REPAIRING WELL  ALTERING CASING  ABANDONMENT*
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TEST WATER SHUT-OFF  PULL OR ALTER CASING  WATER SHUT-OFF  FRACTURE TREAT  MULTIPLE COMPLETE  SHOOT OR ACIDIZE  REPAIR WELL  (Other)  CHANGE PLANS  (Other)  COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, in proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical contents.	REPAIRING WELL  ALTERING CABING  ABANDONMENT®
FRACTURE TREAT  SHOOT OR ACIDIZE  ABANDON*  SHOOTING OR ACIDIZING  (Other)  CHANGE PLANS  (Other)  (Other)  (Other)  COMPLETE  PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, in proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical contents to this work.)*	ALTERING CABING ABANDONMENT®
SHOOT OR ACIDIZE  REPAIR WELL  (Other)  CHANGE PLANS  (Other)  CHANGE PLANS  (Other)  (Note: Report results of Completion or Recompletion or R	ABANDON MENT*
(Other)  CHANGE PLANS  (Other)  (Other)  (Other)  (Other)  (Other)  (NOTE: Report results of Completion or Recompletion or Recompletion or Recompletion or Recompletion or Recompletion of Recompletion or Rec	
17. DESCRIPE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, in proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical control to this work.)*	ort - October 86 X
17. DESCRIPE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, in proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical control to this work.)*	multiple completion on Well on Report and Log form.)
	cluding estimated date of starting any depths for all markers and zones perti-
ell was spud @ 3:00 PM 9-30-86. Ran 2 jts 13-3/8" 61# K-55 ST&C 8rd c/94 sx "B". Ran 40 jts 8-5/8" 24# J-55 ST&C csg, set @ 1698.40'. Cmt OP, held OK. Drill to 5964', ran DST #1 (5683' - 5712') U. Ismay. To cushion. Pipe rcvry: 25 BO, HGC. Gty 40° API @ 60°F. Sample Chamber of Company. The coushion of the country of the	Id w/440 sx "B". Press imes 10-152. BHT 130°F. per: 2500 cc volume, Reached TD 6074' @ w/700 sx LW3, 200 sx astall wellhead. TIH & L. Ismay (5884'-5886') Set CIBP @ 5880' Dump ispf. TIH w/173 jts 2-70 bph for 1 hr. SI to to BO, 8.70 BW & 450 MMCF/CT. Set RBP & pkr @ 576 at Cl. Rel. pkr, pull up flowing. Fill separate BW & 527 MCFG/18-1/2 hrs an 171 jts 2-7/8" J-55 0/31/86.
OTE: Oil leak discovered 10/31/86 in top hammer union of 3 section lucak contained on location. Witnessed by Rich McClure, BLM, Monticello, like i hereby vertify that the foregoing is true and correct SIGNED TITLE Sr. Operations Technician	11/3/86
(This space for Federal or State office use)	DATE 117 57 66

\*See Instructions on Reverse Side

(Other)

# 110702

Form approved.

November 1983)	UNITED_S	TATES	SUBMIT IN TRIPLICATE (Other instructions on re	Dxpries riugu.	
(Formerly 9-331)	DEPARTMENT OF	THE INTERIC	)R verse side)	5. LEASE DERIGNATIO	N AND BERIAL NO.
	BUREAU OF LAND	MANAGEMENT		U-5618	6
611)	DOWN NOTICES AND	DEDONTS O	NEAMELLOS.	6. IF INDIAN, ALLOTT	EE OR TRIBE NAME
(Do not use this	IDRY NOTICES AND form for proposals to drill or Use "APPLICATION FOR PE	to deepen or plug by RMIT—" for such pro	NEWELLS ck to a different reservoir.	N/A	
ī.		illine.		7. UNIT AGREEMENT	NAME
OIL X GAS WELL	OTHER	THE STATE OF THE S	NOV 05 1986	N/A	
2. NAME OF OPERATOR				8. FARM OR LEASE N	AME
MERIDIAN (	OIL INC.		DIVISION OF	Havasu	-Federal
3. ADDRESS OF OPERATO	<b>B</b>	Oil	GAS & MINING	9. WELL NO.	
P. O. Box	1855, Billings, MI	59103	CAS & MINNING	22-19	* · · · · · · · · · · · · · · · · · · ·
See also space 17 bel	Report location clearly and in acow.)	cordance with any S	tate requirements.	10. FIELD AND POOL,	OR WILDCAT
At surface			MI	Havasu	(Wildcat)
SENW (1850	0' FNL - 1255' FWL)	April Of Contraction	MATION	11. SEC., T., E., M., O. SURVEY OR AR	
		WHO	A. C.	Sectio	n 19-38S-24E
14. PERMIT NO.	15. ELEVATION	S (Stiby) bether or,	RT, GR, etc.)	12. COUNTY OR PARI	SH 13. STATE
43-037-31	278	KB 2092' KB		San Juan	Utah
16.	Check Aboachill &	To Indicate No	iture of Notice, Report, or	Other Data	
	O The second	ix to indicate the		and the second second second second	
	NOTICE OF INTENTION 20:		SUBSE	QUENT REPORT OF:	
			· · · · · · · · · · · · · · · · · · ·		

MULTIPLE COMPLETE ABANDON\* (Other) Progress Report October 86 REPAIR WELL CHANGE PLANS (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIPE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

Well was spud @ 3:00 PM 9-30-86. Ran 2 jts 13-3/8" 61# K-55 ST&C 8rd csg, set @ 75.10'. Cmtd w/94 sx "B". Ran 40 jts 8-5/8" 24# J-55 ST&C csg, set @ 1698.40'. Cmtd w/440 sx "B". Press BOP, held OK. Drill to 5964', ran DST #1 (5683' - 5712') U. Ismay. Times 10-152. BHT 130°F. No cushion. Pipe rcvry: 25 BO, HGC. Gty 40° API @ 60°F. Sample Chamber: 2500 cc volume, 1100 psi, 1590 cc oil, 2.95 cfg. HP 2738-2736; FP 1229-1632; SIP 2189. Reached TD 6074' @ 1:30 PM 10-10-86. Logged. Ran 147 jts 17# J-55 csg, set @ 6072'. Cmt w/700 sx LW3, 200 sx "B". Released rig @ 5:00 PM 10-12-86. MIRU Pool Well Svc 10-1586. Install wellhead. TIH & tallied 183 jts 2-7/8" 6.5#/ft 8rd J-55 tbg. Tagged PBTD @ 59761 Perf L. Ismay (5884'-5886') w/4 jspf. Set pkr @ 5802'. Acidize w/200 gal 15% Hcl. Released RBP. Set CIBP @ 5880' Dump 2 sx cmt on top CIBP (New PBTD @ 5868'. Perf Ismay (5768'-5812') w/4 jspf. TIH w/173 jts 2-7/8 tbg to 5698'. Acidized w/100 gal !5% Hcl. Well kicked off flwg. F 40 bph for 1 hr. SI to tie into test facilities 10/20/86. Flow tested (5768'-5800"0, flwd 822.96 BO, 8.70 BW & 450 MMCF/2 hrs. 24/48" ck, GOR 546:1, Gty 38.2° API @ 60°F. Kill well w/2% Kcl wtr. Set RBP & pkr @ 5767. Perf U. Ismay (5682' - 5762') w/4 jspf. Set pkr. Acidize w/100 gal 15% Hcl. Rel. pkr, pull up & reset w/btm @ 5761'. Swab test. Pull swab from 2000'. Well came in flowing. Fill separator & began recording flow test @ 10:00 AM MST 10/24/86. Flwd 725 BO, 28 BW & 527 MCFG/18-1/2 hrs. 24/64" ck, GOR 727:1, Gty 39° API @ 60°F. Killed well w/2% Kcl wtr. Ran 171 jts 2-7/8" J-55 tbg, set @ 5596', set pkr @ 5623'. Install x-mas tree. Flow testing 10/31/86.

NOTE: 0il leak discovered 10/31/86 in top hammer union of 3 section lubricator. 0il loss from leak contained on location. Witnessed by Rich McClure, BLM, Monticello, UT.

SIGNED SI	TITLE Sr.	Operations Technician	DATE 11/3/86
(This space for Federal or State office use)			
APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	TITLE		DATE



Norman H. Bangerter, Governor Dee C. Hansen, Executive Director Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

November 10, 1986

Meridian Oil Inc. P.O.Box 1855 Billings, MT 59103

Gentlemen:

RE: Request to Flare or Vent Associated Gas for Havasu-Federal Well No. 22-19, Sec.19, T.38S, R.24E, San Juan County, Utah

The Division of Oil, Gas and Mining hereby grants approval of your sundry notice dated October 30, 1986, to flare associated gas from the referenced well. The approval is limited to the conditions stated in the notice, specifically that the associated gas may be flared or vented in excess of that allowed by Rule 311.3 of the Oil and Gas Conservation General Rules for the purposes of testing the well during the period extending until January 14, 1987.

Please note that this approval represents an administrative variance to Rule 311.3. The Division will inform the Board of Oil, Gas and Mining of the approval at the next regularly scheduled meeting to be held on December 4, 1986, during the informal Briefing Session. No Board action will be required at this time. Any additional request for flaring will require concurrence or approval of the Board.

It is also necessary to comply with federal regulations and the federal lease requirements concerning oil and gas operations. Therefore, you are advised to contact the appropriate federal agency and ensure that they do not object to the proposed gas flaring.

Please contact this office again if you have any further questions.

Best regards,

Dianne R. Nielson

Director

cc: R. J. Firth

J. R. Baza

Well file

0258T-48

Form 3160-5 (November 1983) (Formerly 9-331)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR (Other Instructions on re-

.

N/A

N/A

9 WELL NO.

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Form approved. Budget Bureau No. 1004-0135 Expires August 31, 1985

LEASE	DESIGNATION	AND	BERIAL	NO.
U-	56186			

S. IF INDIAN, ALLOTTEE OR TRIBE NAME

BUREAU OF LAND MANAGEMENT

SUNDRY	<b>NOTICES</b>	AND	<b>REPORTS</b>	ON	WELLS	

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT..." for such proposals.)

OTHER MERIDIAN OIL INC.

3. ADDRESS OF OPERATOR 59103 P. O. Box 1855, Billings, MT

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface

SENW (1850' FNL - 1255' FWL)

**DIVISION OF OIL. GAS & MINING** 

22-19 10. FIELD AND POOL, OR WILDCAT Havasu (Wildcat)

Havasu-Federal

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Section 19-38S-24E

14. PERMIT NO. 43-037-31278

WELL GAS GAS

2. NAME OF OPERATOR

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5092' KB

12. COUNTY OR PARISH 13. STATE

San Juan Utah

18

#### Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

N	OTICE OF INTENTION TO:	d c	SUBSEQUENT REPORT OF:	
EST WATER SHUT-OF	PULL OR ALTER CASING		WATER SHUT-OFF REPAIRING WELL	ĺ
RACTURE TREAT	MULTIPLE COMPLETE		FBACTURE TREATMENT ALTERING CASING	l
HOUT OR ACIDIZE	ABANDON*		SHOOTING OR ACIDIZING ABANDONMENT*	
EPAIR WELL	CHANGE PLANS		(Other)	į
Other) F	lare Gas	X	(Norz: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIPS PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

72 hr well test, flowed 5212 BO, 0 BW & 5070 MCFD, 30/64" choke. Avg FTP 580 psi, GOR 973:1.

Average - 1737 BOPD, 0 BWPD, 1690 MCFPD. Avg GOR 973:1.

Permission to produce the well and flare gas for a 60 day period is requested. Additional bottom hole pressure will be required to determine the extent of the reservoir after a draw down period ...

i hereby certify that the foregoing is true and correct		Production	Superintendent		11/13/86
(This space for Federal or State office use)	TITLE _			DATE	
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE _			DATE	`

Form 3160-5 (November 1983) (Formerly 9-331)

# UNITED STATES SUBMIT IN TRIPLICATE\* (Other instructions on rereverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985
LEASE DESIGNATION AND SERIAL NO.

BUREAU OF LAND MANAGEMENT	U-56186
SUNDRY NOTICES AND REPORTS ON WELLS  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  Use "APPLICATION FOR PERMIT—" for such proposals.)	N/A 120314
OIL A CAS OTHER	7. UNIT AGREEMENT NAME N/A
MERIDIAN OIL INC. DECISION	8. FARM OR LEASE NAME Havasu-Federal
P. O. Box 1855, Billings, MT 59108 NOV 1 9 1986	9. WELL NO. 22-19
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*  See also space 17 below.)  At surface  DIVISION OF	10. FIELD AND POOL, OR WILDCAT Havasu (Wildcat)
SENW (1850' FNL - 1255' FWL) OIL GAS & MINING	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
14. PERMIT NO.   15. ELEVATIONS (Show whether DF, RT, GR, etc.)	Section 19-38S-24E
43-037-31278 5092' KB	San Juan Utah
6. Check Appropriate Box To Indicate Nature of Notice, Report, or C	Other Data
	UENT REPORT OF:
7. DESCRIES PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates proposed work. If well is directionally drilled, give subsurface locations and measured and true vertice nent to this work.)*	mi depths for all markers and gones pert
72 hr well test, flowed 5212 BO, 0 BW & 5070 MCFD, 30/64" cho GOR 973:1.  Average - 1737 BOPD, 0 BWPD, 1690 MCFPD. Avg GOR 973:1.	ke. Avg FTP 580 psi,
Permission to produce the well and flare gas for a 60 day per Additional bottom hole pressure will be required to determine reservoir after a draw down period.	riod is requested.
CONFIDENTIAL MEDICAL PROPERTY OF THE PROPERTY	
CONTRACTOR	

13	i hereby certify that the foregoing is true and correct					
	SIGNED W. Brace	TITLE _	Production	Superintendent	DATE	11/13/86
	(This space for Federal or State office use)					
	APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	TITLE _			DATE	

### TRANSMITTAL LETTER

# RECORD OF SHIPMENT OF CONFIDENTIAL INFORMATION CONFIDENTIAL

TO: Utah Dept. of Natural Resources	FROM: C. L. Crawley
Division of Oil, Gas and Mining	Name
4241 State Office Building	Sr. Staff Geologist
Salt Lake City, UT 84114	Title
Attn: Mr. Ron Firth	DATE: December 2, 1986
	VIA: Mail
RE: All information pertains to the	Havasu Federal #22-19, San Juan
<u>Co., Utah, 19—38S—24E / API 43—</u>	-037-31278
QUANTITY DESCRIPTION	
1 Compensated Density —	Compensated Neutron / Run #1
1 Dual Laterolog / Run	#1
1 B. H. C. Sonic Log /	Run #1
1 Schlumberger - DST Re	
	gineer Mud Log and Report
	gand Report
INSTRUCTIONS: Please acknowledge receithe copy.	pt promptly by signing and returning
RECEIVED BY:	DATE:
REMARKS : All information pertains to	the Havasu Federal #22-19, San Juan
<u>Co., Utah, 19–38S–24E / API</u>	43-037-31278

### MERIDIAN OIL

December 2, 1986



DIVISION OF OIL, GAS & MINING

Utah Department of Natural Resources Division of Oil, Gas and Mining 4241 State Office Building Salt Lake City, UT 84114

Attn: Mr. Ron Firth

Gentlemen:

Enclosed for your records are logs and other pertinent information on the following Meridian Oil Inc. wells:

Havasu Federal 41-24 San Juan County, Utah 24-38S-23E API # 43-037-31279

Havasu Federal 22-19 San Juan County, Utah 19-38S-24E API # 43-037-31278

**Navajo Federal 42-5**San Juan County, Utah
5-39S-25E
API # 43-037-31261

Please hold this information confidential. If any additional information is required, please do not hesitate to contact us.

Regards

Polly Eggemeyer

**Exploration Secretary** 

pse

cc: Well File

C. L. Crawley



# ROCKY MOUNTAIN GEO-ENGINEERING CO.

		245	0 INDUSTRIA	L BLVD.	PHONE 243	3-3044	GRAND JUNCT	TION, COLORAD	O 815
	COMPANY	MERIDIAN O	IL				·		
z'	WELL NO	#22-19 HAV	ASU FEDER	RAL					
	LOCATION								
						ZO	NE OF INTER	REST NO1	•
NTER	VAL: From	5372	<sub>To</sub> 538	34	-				
ORILL	RATE: Abv	2 1/2	Thru1	1/2				Below_2	
MUD (	GAS-CHROMATOG	RAPH DATA							
		TOTAL	$c_1$	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	OTHER	]
	Before 65	14	900	330	152				
	During 76	56	5000	2400	228	680			
		\$	1		<del></del>	<del></del>			-
Ī	After 88	6	500	198	76				1
	After 88			198	76				
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	Type gas increased Gas variation v	ase: Gradual & within zone: St	X Sharp □	Erratic XX	Increasing	_			
CARBI	Type gas incre	ase: Gradual K within zone: St GRAMS : READING	X Sharp □ eady □ E X Min. in Pea	Erratic XX	Increasing	Sensiti	vity: Poor□	Fair XXI Go	ood □
	Type gas increased as variation value HOLE RATIO:	ase: Gradual K within zone: St GRAMS READING Even	X Sharp □	Erratic XX  ak = 6.9	Increasing   CUT:	_			ood ⊏
	Type gas increaded as variation with the HOLE RATIO:  Mineral  None  None	ase: Gradual & within zone: St  GRAMS READING  Even  % in total sa	X Sharp  Eady  Eady  EX Min. in Pea  Spotty  EX Min EX	Erratic XX  ak = 6.9	Increasing   CUT:	Sensiti None & Poor  Fair	vity: Poor  Streaming Slow Mod	] ]	ood ⊏
	Type gas increased as variation was to the HOLE RATIO:  Mineral  None  XX	ase: Gradual K within zone: St GRAMS READING Even  % in total sa % in show li	X Sharp  Eady  Eady  EX Min. in Pea  Spotty  EX Min EX	Erratic <b>XX</b> ak =6.9	Increasing   CUT:	Sensiti None &X Poor	vity: Poor□  Streaming  Slow □  Mod □  Fast □	] ]	
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FLUO: STAIN PORO:	Type gas increased as variation with the second sec	ase: Gradual & within zone: Stands: GRAMS  EVEN	X Sharp  Eady  Eady  EA X Min. in Pea Spotty  EA E	Erratic XX  ak = _6.9  Live □	Increasing  CUT:  Dead  Res	Sensiti None & Poor	Streaming Slow  Mod  Fast  COLOR:	 	Dk. ⊠
FLUO: STAIN PORO: LITHO	Type gas increased as variation was seen as variation was seen as a variation	ase: Gradual & within zone: Stands: GRAMS EVEN	X Sharp  Eady  Eady  EA X Min. in Pea Spotty  EA E	Erratic XX  ak =6.9   Live □	Increasing  CUT:	Sensiti  None  Poor  Fair  Good  Eve	Streaming Slow  Mod  Fast  COLOR:		Dk. Œ
STAIN POROS	Type gas increased as variation with the second control of the sec	ase: Gradual & within zone: Stans    GRAMS   READING    Even	X Sharp  Eady  Eady  EA X Min. in Pea  Spotty  EA E	Erratic XX  ak = _6.9  Live □	Increasing  CUT:	Sensiti None XX Poor  Fair  Good  Eve	Streaming Slow  Mod  Fast  COLOR:  The Spotty	oor drlg w/	Dk. [X



# ROCKY MOUNTAIN GEO-ENGINEERING CO.

							TION, COLORADO
COMPANY							<del></del>
WELL NO	#22-19 HAV	ASU_FEDER/	AL				
LOCATION		<del></del>					
					ZO	NE OF INTER	EST NO. 2
ERVAL: From 5	408	то542	25	_			
LL RATE: Abv	2 1/2	Thru1	L_1/2			I	Below 2 1/2-
O GAS-CHROMATOO	GRAPH DATA						
	TOTAL	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	OTHER
Before 06					· · · · · ·		
00	18	300	132	76			
During	110	4500	2640	1634	816	<del>                                     </del>	
After 30	26	900	594	152	120		
	ease: Gradual XI	☑ Sharp □		•			
Type gas incre	within zone: St	teady 🗆 E		_			
Type gas incre  Gas variation	within zone: St	teady 🗆 E		_			Fair <b>⊠</b> X Goo
Type gas incre  Gas variation value of the control	within zone: St  GRAMS READING  Even	teady □ E X Min. in Pea Spotty □	ik = <u>6.9</u>	CUT: N	Sensiti	ivity: Poor□  Streaming	
Type gas incre  Gas variation variat	within zone: St  GRAMS READING  Even	teady □ E X Min. in Pea	ik = <u>6.9</u>	CUT: N	Sensiti	ivity: Poor□	<b>J</b>
Type gas incre  Gas variation variat	within zone: St  GRAMS READING  Even  % in total sa  % in show li	X Min. in Pea Spotty □ ample □ ithology □	k =6.9	CUT: N Po F:	Sensiti one IXX oor □	Streaming Slow  Mod  Fast	] ] ]
Type gas incre  Gas variation variat	within zone: St  GRAMS READING  Even  % in total sa  % in show li  COLOR:	X Min. in Pea Spotty □ ample □	ık =6.9	CUT: N Po	Sensition   Sensit	Streaming Slow  Mod  Fast  COLOR:	] ] ]
Type gas incre  Gas variation variat	within zone: St  GRAMS READING  Even  % in total sa  % in show li  COLOR:  OOT  Fair	X Min. in Pea Spotty  ample  ithology  Good  Good	ik =6.9 ]  Live □ I	CUT: N Po Fr G Oead  Resid	Sensiti	Streaming Slow  Mod  Fast  COLOR:  en  Spotty	] ] ] — Lt.
Type gas incre  Gas variation variat	within zone: St  GRAMS READING  Even  % in total sa  % in show li  COLOR:  Fair  Go  Fair  Go	X Min. in Pea Spotty  ample  ithology  Good  Kind	ik =6.9	CUT: N Po F: G	Sensitione XX Soor  Sood  Sood	Streaming Slow  Mod  Fast  COLOR:  en  Spotty	] ] ] — Lt.
Type gas incre  Gas variation variat	within zone: St  GRAMS READING  Even  % in total sa  % in show li  COLOR:  Fair  Go  Fair  Go	X Min. in Pea Spotty  ample  ithology  Good  Kind	ik =6.9	CUT: N Po F: G	Sensiti	Streaming Slow Mod Fast COLOR: en Spotty	] ] ]   Lt.   Di
Type gas incre  Gas variation variat	within zone: St  GRAMS READING  Even  % in total sa  % in show li  COLOR:  Fair  Go  Fair  Go	X Min. in Pea Spotty  ample  ithology  Good  Kind	ik =6.9	CUT: N Po F: G	Sensiti	Streaming Slow Mod Fast COLOR: en Spotty	] ] ]   Lt.   Di
Type gas incre  Gas variation variat	within zone: St  GRAMS READING  Even  % in total sa  % in show li  COLOR:  Fair  Go  Fair  Go	X Min. in Pea Spotty  ample  ithology  Good  Kind	lk =6.9	CUT: N Po Fr G  Dead  Resid	Sensiti	Streaming Slow  Mod  Fast  COLOR:  en  Spotty	] ] ]   Lt.   D



## ROCKY MOUNTAIN GEO-ENGINEERING CO.

	RME	WE	LL LOGGING	- CORE AND	WATER ANA	LYSIS		ON, COLORADO 815
	COMPANY	MERIDIAN O	IL		· .			<del></del>
	WELL NO							
	LOCATION							
						ZON	NE OF INTERI	EST NO3
VTER:	VAL: From 56	583	5711					
	RATE: Abv						B	elown/a
	GAS-CHROMATOC							
Γ		TOTAL	$c_1$	c <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	OTHER
	Before 5684	20U	3476ppm (66%)	675ppm (13%)	424ppm (8%)	91ppm (1.7%)	625ppm (11.8%)	
F	During 5683	240	25636ppm (58%)	9250ppm (21%)		511ppm (1%)	2500ppm (6%)	
<u> </u>	After 5712	60U	4171ppm (52%)	2500ppm (31%)			625ppm (7.7%)	
L		ase: Gradual C	1	(31/0)	(1.570)	(2.070)	1 (, , , , , ,	
	,		-	-motio 🗀 🕴		Dograndina	٦	
ARBI	Gas variation v	within zone: St  GRAMS READING			_			Fair 🗀 Good [
LUO:		Even 🔀 % in total sa		 	CUT: N P F	Jone □ Joor □ Fair □ Good ፟፟፟	Streaming Slow  Mod  Fast   KX	
TAIN	: None 🗀 Po	oor 🗆 🛮 Fair 🗀	GoodXXI	LiveXX Do	ead 🗆 Resi	due 🗆 Eve	n ⊠ Spotty l	□ Lt.□ Dk.〔
oros	SITY: Poor 🗆	Fair 🖾 Go	ook 🖾 Kind	_intercry	stalline-	intergran	nular to pi	npoint vugula
JTHO	LOGY DOL 1	nt mbrn mic	x1 fx1 to	fgran fr	n-hd cln m	tx o sat	fos deb	
						SAMPLE	QUALITY	
OTIF	TIED Cindy	Crawley		@3:3	30p.m.	HRS. DATE	· 	
REMA	RKS							
	E DESCRIBED I		Pudliner	· · · · · · · · · · · · · · · · · · ·				

# MERIDIAN OIL INC. #22-19 HAVASU FEDERAL

### SAMPLE DESCRIPTIONS

TEN FOOT LAGGED SAMPLES CAUGHT BY LOGGERS. \* - INDICATES SHOW INTERVAL

INTERVAL	%	DESCRIPTION
5600-5610	90% 10%	LS lt-mgy tan mic-sl crpxl hd tt ø fr cln mtx NSFOC SH blk dk gy plty soty calc carb frm
5610-5620	90% 10%	SH aa LS aa
5620-5630	75% 25%	SH aa bcmg mbrn mot gy LS aa
5630-5640	75% 25%	LS tan lt gy micxl vfxl hd ttø sl arg NSFOC SH aa
5640-5650	60% 40%	SH m-dk gy blk rthy calc-lmy hd LS aa
5650-5670	70% 30%	SH m-dk gy blk rthy-sbwxy lmy in part frm LS aa swy
5670-5680	75% 25%	LS mgy brn tan micxl vfxl hd tt ø v cvg NSFOC SH aa POS ANHY MUD IS FLOCKULATING
5683-5692*	100%	UPPER ISMAY  DOL lmy mbrn gy micxl milsuc frm cln mtx g intgran-g interconnecting pp vug ø pet od g abnt (80%) even o stn o sat abnt (80%) bri gn yel even hydc flor vg flash bcmg g mky bl stmg cut g rich yel gn halo
5692-5712*	100%	LS tan crm ltgy micxl frm cln mtx fr intxl ø chky sl fos mnr lt brn sp o stn mod bri yel lt bl sp hydc flor p mky yel stmg cut
5712-5780	80% 20%	VPSL ABNT CVGS SH orng red m gy prob cvgs DOL & LS aa
5780-5790	60% 40%	SH red orng tr blk rthy sdy in part frm LS crm tan gy micyl vfxl frm fr cln mtx p intxl ø chky NSFOC
5790-5810	40% 30% 30%	CVGS LS aa DOL bff lt gy micxl micsuc hd cln mtx NSFOC
5810-5820	100%	LS lt gy bff micxl vfxl hd p-fr intxl ø cln mtx mnr sp lt brn ostn mnr sp bri yel hyde flor p fnt yel diffus cut wk fnt yel halo

5820-5830	100% TR TR	LS aa ANHY wh crm fgran SH blk plty calc frm
5830-5840	30% 70%	HOVENWEEP "A" SHALE SH blk plty soty calc-dol frm-hd LS aa
5840-5850	80% 20%	SH aa POOR SAMPLE LS aa
5850-5860		VERY POOR SAMPLE ABNT CVGS Pos ANHY
5860-5870	10%	VERY POOR SAMPLE ABNT CVGS 80% ANHY wh vfgran-amorph fri LS & DOL aa
5870-5880	50% 50%	POOR SAMPLE DOL mbrn micxl micsuc he ttø snhy NSFOC CVGS
5880-5890	80% 20%	DOL mbrn gy aa CVGS
5890-5900	90% 10%	LS lt gy bff micxl vf-fxl he p intxl ø dol NSFOC DOL aa
5900-5920	90% 10%	GOTHIC SH blk dkgy brn blky-plty soty calc LS aa
5920-5940	60% 40%	SH aa CVGS
5940-5950	70% 30% TR	DESERT CREEK SH lt gy gn blk blky-phy mrly-lmy frm CVGS CHT tan
5950-5970	30% 70%	SH aa CVGS
5970-5980	60% 40%	LS m-ltgy micxl vfxl frm ttø varg-mrly NSFOC SH aa
5980-5990	40% 40% 20%	LS aa tr asph resd DOL lt gy micxl micsuc hd ttø arg slpyr CVGS
5990-6000	60% 10% 30%	DOL lt gy tan micxl micsuc hd ttø arg bivel anhy ANHY wh gran-amorph LS aa
6000-6010	70% 30%	LS ltgy tan micxl vfxl frm ttø arg biocl chky DOL aa

## MERIDIAN OIL INC. #22-19 HAVASU FEDERAL SAMPLE DESCRIPTIONS CONTINUED

6010-6020	80% 20%	LS aa bcmy mgy SH mgy blky rthy slty mrly-lmy frm
6020-6040	60% 40%	CHIMNEY ROCK SH blk blky soty calc hd LS lt brn gy micxl vfxl-gry hd ttø arg
6040-6060	80% 20%	LS dk-sl mgy brn micxl vfgran hd ttø arg anhy dol SH aa
6060-6074	30% 70%	ANHY wh crm amorph sft DOL & SH aa PROB SAH

### MERIDIAN OIL INC. #22-19 HAVASU FEDERAL

### FORMATION TOPS

FORMATION	MEASURED DEPTH	ESTIMATED SAMPLE TOP	E-LOG TOP	SEA LEVEL
HONAKER TRAIL	4766	4710	4711	+381
UPPER ISMAY	5698	5668	5652	-560
TOP OF Ø	5768	5683	5676	-584
"A" SHALE	5830	5835	5836	-744
LOWER ISMAY		5844	5844	-752
TOP Ø		5879	5874	-782
GOTHIC SHALE		5892	5898	-806
DESERT CREEK	·	. 5830	5933	-841
LOWER Ø		5995	5994	-902
CHIMNEY ROCK		6018	6014	-922
AKAH		6042	6038	-946
SALT		6071	6073	-981
TOTAL DEPTH	6200	6074	6073	-981

#### GEOLOGIC SUMMARY

Geologic and mudlogging services were provided by Rocky Mountain Geo-Engineering Company. These services commenced on October 2nd, 1986 at 3300' in the Cutler group of Permian age. A completed depth of 6074' was reached on October 11th, 1986 in the Pennsylvanian aged Akah cycle of the Paradox formation.

CUTLER GROUP (3300-4710')

The Cutler group consists predominantly of red to orange silty shales that are interbedded with sandstone and minor amounts of limestone. The sandstones were typified by transparency, light gray, white to tan, fine to very fine grained, subround, wellsorted, generally clean and moderately porous. The limestones are red, orange, pink, cryptocrystalline, silty and firm. No hydrocarbon or sample shows occurred in the Cutler group.

#### HERMOSA GROUP

HONAKER TRAIL FORMATION (4710-5652')

The Honaker Trail is composed primarily of limestone interbedded with shales, siltstones, and lenses of sandstone which occassionally have gas shows associated with increases in penetration rate. The limestones are light to medium gray, white to buff, micro to cryptocrystalline, clean to argillaceous and generally tight. The shales are medium to light gray mottled brown, blocky, earthy, silty, calcareous in part and firm. The siltstones appear gray brown, calcareous and friable to firm. Gas associated with the Honaker Trail formation was observed in the sand lenses from 5370' through 5480'. The sands are light gray to tan, fine to very fine grained, subangular, well sorted, poorly to moderately calcareous and displays poor to fair intergranular porosity. No hydrocarbon staining, fluorescence, or cut was observed in the sands.

#### PARADOX FORMATION

I. UPPER ISMAY CYCLE (5652-5836')

The Upper Ismay Cycle consists of limestone and dolomite. The limestones are tan to cream, microcrystalline, firm, clean, chalky in part and display a fair to poor intercrystalline porosity. The dolomite is medium brown (oil saturated), microcrystalline, microsucrosic, firm, clean, and has good intergranular porosity. Good staining, fluorescense and cut were observed in the upper interval. For more detailed descriptions of the shows, see the lithologic descriptions of the interval 5880-5712' of this report. Upon drilling the upper section of the Ismay Cycle, hydrocarbon shows occurred from 5680-5712', indicating substaintial hydrocarbon recovery potential. After analysis of samples and gas detection equipment, a successful drill stem test was conducted from 5683-5712'. Gas and oil flowed to the surface after 12 and 32 minutes respectively. Due to the poor sample quality, the remaining interval of the upper Ismay was not well represented in samples from 5712-5844'.

II. HOVENWEEP "A" SHALE (5836-5844')

The Upper and Lower Ismay cycles are separated by the Hovenweep shale. The "A" shale is black in color, sooty in luster, platy, calcareous to dolic and firm to hard. A subtle gas increase occurred in the shale.

III.LOWER ISMAY (5844-5898')

The Lower Ismay consists of dolomite, limestone and anhydrite. The anhydrites are white amorphic and soft. The limestones are cream, tan microcrystalline, very fine crystalline, hard, tight and chalky in part. The dolomite is medium brown, microcrystalline, microsucrosic, hard and tight. Gas increases were observed from 5880-5892', however, due to poor sample quality,

no stain, fluorescence or cut was observed.

IV. GOTHIC SHALE (5898-5933')
The shale is black to dark gray brown, blocky to palty, sooty, calcareous and firm. A gradual increase in all gas occurred during the drilling of the Gothic shale.

V. DESERT CREEK CYCLE (5933-6014')
The Desert Creek is composed of limestone, dolomite, and anhydrite. The anhydrite is white, granular, amorphic and firm. The dolomite is light gray, tan, microcrystalline, microsucrosic, hard, anhdritic and tight. The limestone is light to medium gray, microcrystalline, hard, tight and argillaceous. No sample shows were observed in the Desert Creek, however, relatively high background gas occurred through the interval.

VI. CHIMNEY ROCK SHALE (6014-6038')
The Chimney Rock Shale is medium gray, black, blocky, sooty, calcareous to marly, silty in part and hard. An increase in all gas occurred in the interval.

VII. AKAH CYCLE (6038-T.D.)
The Akah is composed of anhydritic limestone and anhydrite. The anhydrites are white to cream. amorphic, soft to firm. The limestone is dark to light gray brown becomin tan, microcrystalline, very fine granular, hard, tight, argillaceous, anhydrtic and dolomitic.

Due to overall poor sample quality, proper sample evaluation of the lower portion of the Upper Ismay, Lower Ismay, and Desert Creek Cycles of the Paradox Formation was difficult, so provisions were made to adjust to the circumstances. Caution is advised when evaluating or comparing mud log lithology to "E" Log lithologies.

FLOPETROL JOHNSTON Schumberger

SERVICE ORDER NUMBER:

# FIELD REPORT

TYPE OF SERVICE BEST COPY MEFAL DATE DISTRICT

WELL OWNER: /	MERIL	) IAN		_	AVAIL	ABLE -		S	ERVICE O	RDER NUM	/BER:				
REPORTS ADDRI	*	:		-1G						47.5	1 92 1				
WELL NAME & N							FIE	.D:	1.61	711 0 4 1	e jartis	LEASE:		<u>. "A. J. A.</u>	
LOCATION: SEC		т 38								VAN		STATE:			
ONSHORE		OFFSHORE			ND WATE						ELOPMENT		PRODUC	TION	
TEST NO. /		TEST INTER	VAL FHO	<u>ж</u>	568.	3		FIT	0 5 /	12	FT= 2	30	FT		
		SURFAC	E DAT								EQUIPM	ENT CE	MENCE		
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PULLED PACKER	LOOSE			7474				•						·	
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CUSHION TYPE	LENGTH	AMOUNT SUF	G	ESS 1ES	TOOL PRES		16					BORE D	ATA		
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RECOVERY		RESISTIVITY	10417			CHL CON	TENT			509					OM / (-)
37, 73 CU	. FT. GAS	RECOVERED W	ATER	@	°F		PPM				TH 57/2				ft
7370 c.c		RECOVERED M	UD	· · · @	°F				SIZE /	<del></del>		in			
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INSTRUMENT NO.	2 75.5							-	AL OHOTE			UD DATA		PALOO	psi
CAPACITY	7							MUE	TYPE L	.S. A			UD WT	2.7	#/gal
DEPTH	1000	4.		2:11					COSITY			W	ATER LC		
INSIDE-OUTSIDE			100	17				RES	ISTIVITY:	OF MUD	, i L	@	(e 2	۰F	
CLOCK CAP							•				TE Q 、	i e	<u>63</u>	°F	
TEMPERATURE °F			1 2 -2							<u> </u>	PPI	M NI	TRATES		PPM
I. HYD. P.S.I.G. I. FLOW P.S.I.G.	<del> </del>		\$ 2.5	6 7 (d)	·				DURING 1	EST	·	****		PPM	· · · · · · · · · · · · · · · · · · ·
I.S.I P.S.I.G.		<del></del>	4777		.کمو <u>لا.</u> د			KEI	MARKS:	····					
2nd FLOW P.S.I.G.	<del>                                     </del>	_	+	<del>-  </del>		_									· · · · · · · · · · · · · · · · · · ·
2nd S.I. P.S.I.G.	<del> </del>		1									-			
F. FLOW P.S.I.G.			<del></del>												
		i		- 1											
F.S.I. P.S.I.G.															
F.S.I. P.S.I.G.			-2.5												
F.S.I. P.S.I.G. F. HYD. P.S.I.G.	ESCRIPTI	ON	-4		FEET	BBLS	96	OIL	% WATER	% CUSHION	% MUD	% OTHER	API GRAV	RESIST	CHL PPM
F.S.I. P.S.I.G. F. HYD. P.S.I.G.	ESCRIPTI	ON	a		FEET	BBLS	%	OIL	% WATER	% CUSHION	% MUD	% OTHER	@ °F	@ °F	CHL PPM
F.S.I. P.S.I.G. F. HYD. P.S.I.G.	ESCRIPTI	ON			FEET	BBLS	% (	OIL	% WATER	% CUSHION	% MUD	% OTHER	@ °F	@ °F	CHL PPM
F.S.I. P.S.I.G. F. HYD. P.S.I.G.	ESCRIPTI				FEET								@ °F	@ °F @ °F	
F.S.I. P.S.I.G. F. HYD. P.S.I.G. RECOVERY D						*						The second secon	@ °F	0 °F 0 °F 0 °F	
F.S.I. P.S.I.G. F. HYD. P.S.I.G. RECOVERY D													0 °F	0 °F 0 °F 0 °F	
F.S.I. P.S.I.G. F. HYD. P.S.I.G. RECOVERY D													0 °F	0 °F 0 °F 0 °F 0 °F	
F.S.I. P.S.I.G. F. HYD. P.S.I.G. RECOVERY D	est					25	10	 O ∹					0 °F 0 °F 0 °F 0 °F 0 °F 10 °F	0 °F 0 °F 0 °F 0 °F	
F.S.I. P.S.I.G. F. HYD. P.S.I.G. RECOVERY D	e of					25	10	0					6 °F	0 °F 0 °F 0 °F 0 °F	
F.S.I. P.S.I.G. F. HYD. P.S.I.G. RECOVERY D	e of					25	10	0					6 °F	0 °F 0 °F 0 °F 0 °F	
F.S.I. P.S.I.G. F. HYD. P.S.I.G. RECOVERY D	e of					25	10	0					6 °F	0 °F 0 °F 0 °F 0 °F 0 °F	

FLOPETROL JOHNSTON ENGINEER/TECHNICIAN (PRINT)

MERIDIAN OIL INC. #22-19 HAVASU FEDERAL SECTION 19, T38S, R24E SAN JUAN COUNTY, UTAH

**GEOLOGY REPORT** 

BY

JOHN H. PUDLINER
ROCKY MOUNTAIN GEO-ENGINEERING CO.

#### WELL SUMMARY

OPERATOR:

MERIDIAN OIL INC.

WELL NAME:

#22-19 HAVASU FEDERAL

LOCATION:

**SECTION 19, T38S, R24E** 

FOOTAGE:

1850' FNL, 1255' FWL

COUNTY:

SAN JUAN

STATE:

NEW MEXICO

**ELEVATION:** 

5092' KB, 5080' GL

SPUD DATE:

SEPTEMBER 30th, 1986

COMPLETION DATE:

OCTOBER 10, 1986

WELLSITE GEOLOGY:

ROCKY MOUNTAIN GEO-ENGINEERING CO.

GEOLOGIST:

ART CURTIS

DRILLING CONTRACTOR:

AZTEC WELL SEVICE, RIG #301

TOOL PUSHER:

CHUCK HESSER

CASING:

8 5/8" to 1704', 5 1/2" to T.D.

DRILLING MUD COMPANY:

MAGCOBAR

MUD ENGINEER:

PHIL MC CLURE

ELECTRIC LOGGING:

**GEARHART** 

TYPES OF LOGS RUN: GR-DLL-MSL; SC TO T.D., GR-CNL-FDC; SC TO T.D.

TOTAL DEPTH:

6074' DRILLER, 6073' LOGGER

STATUS:

PREPARE FOR COMPLETION OF UPPER ISMAY

DRILL STEM COMPANY:

SCHLUMBERGER

DST ENGINEER:

CLIFFORD RICHARDS

#### **BIT RECORD**

WELL NAME:	#22-19 HAVASU FEDERAL	<b>ELEVATION:</b>	_

CO. NAME: MERIDIAN OIL SECTION: SEC.19, T38S, R25E

CONTRACTOR: AZTEC RIG# 301 CO. & STATE: SAN JUAN, UTAH

SPUD	DATE: _	9-3	0-86			T.D.	DATE:	······································	<del></del>			
			BIT REC	CORD				F	T PER/DA	Υ	DEVI/ SUR	ATION VEYS
RUN	SIZE	MAKE	TYPE	XXX OUT	FTG	HOURS	FT/HR	DATE	DEPTH	FT	DEPTH	DEV.
1	17 1/2	SEC	53SJ	77	77	4	19.25	10-3			701	3/4
2	12 1/4	HTC	J22	1704	1627	15	108.5	10-4	2589		1030	3/4
3	7 7/8	REED	HS-51	4782	3079	82	37.5	10-5	3408	819	1500	3/4
4	7 7/8	нтс	J33	6074	1292	58,25	22,2	10-6	4247	839	1650	1:1/2
								10-7	4798	551	2110	1
								10-8	5551	599	2515	1
								10-9	5712	161	3025	1 1/4
								10-10	5964	252	3582	1
<del></del>								10-11	6074	110	4019	1 1/4
	·										4454	1 1/4
											4782	1 1/2
		7									5260	1 1/2
											5712	1
											6074	1
							·			_		
										-	-	
					<u> </u>							
···						·						
***************************************					w							
	]											

COMPANY NAME: MERIDIAN OIL MUD RECORD: WELL NAME #22-19 HAVASU FEDERAL CONTENT CALCIUM HARDNESS CONTENT CONTENT CONTENT ALKALINITY FILTRATE Z CHROMATE MUD GRADIENT GEL STRENGTH PLASTIC VIS CHLORIDE PPM H FILTRATE FUNNEL VIS H WEIGHT H SOLIDS DEPTH YIELD POINT DATE н WATER Z KCL CAKE SAND API OIL PH 8.4 189 26 11.0 200 150 10-2 8.6 1685 38 9.2 10 20 10-3 1703 8.4 26 10.75 50 320 10-4 8.5 28 2745 11.0 80 40 10-5 8.5 27 3687 10.4 400 TR 8.6 10-6 28 4406 10.1 400 500 8.5 10-7 4917 27 9.0 400 400 10-8 8.7 5537 31 . 3 9.5 4 0/3 12.6 1300 2/32 400 3.0 0-9 8.9 5712 38 10 5 0/6 9.5 13.8 2 3000 300 4.3 10-9 9.0 5751 37 10 3 0/10 10.0 14.2 2 3600 300 5.0 10-10 9.2 5903 36 11 7 0/9 10.5 11.0 2 3700 250 6.5 9.4 10-11 6074 48 17 10 4/20 10.5 11.0 2 3700 400 7.8 9.4 10-11 6074 51 17 13 3/19 10.5 10.8 2 3700 400 7.8

DRILL STEM TEST REPORT

DST # 1	Date_10	<u>)-09-86                                    </u>		esting Co.SCH	LUMBERGER
	9 HAVASU FEDERAL				
Formation: UPPER ISMAY		al: 5683-5712'	w	tr. Cushlon_	NONE
Hole Size 7 7/8"F	Packer Size	" Drl.	Pipe Size4	1/2"_Bbls/F	t NO RECOVERY
Drl. Collar Size	Bbls/Ft	Drlg.	Contractor	AZTEC WELL SE	RVICE
Mud Filtrate: Ppm N	itrate		Ppm Chlor	ides 3000	
Minut			•		
Durati	<del></del>				_
Preflow 2		s to Surf. 1		Rate 289 ps	
Initial Shutin 18		uid to Surf		Rate 320 psi	
Flow Period 152	Mu	udMin;	Wtr	Min; Oil32	Min
Final Shutin					
			50T #4 1		
	ue to gas and oi		n DSI #1, it	t was not neces	sary to run
	irr cimes during	the test.			
SI	E ATTACHED FIELI	D_REPORT			
	•				
Orifice		nutes			
Plate Size Ter	mp. fro	m V.O.	Pressure	Rate	
		····	•		
			<u> </u>		
n Durando (Eig	ald Dondings	Domb Don	-h ====	ottom Hole T	
Pressure Records (Fie	ilo Readings) -	- Borno Depi	n 5/12 B	ottom Hote 1	5111b • <u>63</u>
	ow	·F	inal Flow	OIL & GAS TO	SURFACE
IHP 2738 IFP 1129 FI	-P <u>1632</u> ISIP	2189 ; IFP	FFP	FSIP	FHP2736
Sampler Capacity 47,00	Cc's; Sar	npler Pressi	ure <u>1100</u> F	Rstv 42Te	emp_62•
Cu Ft Gas 2 95 C	c's Oil_ <sub>1590</sub>	Cc's Wa	ter	_Cc's (Other)	
Sampler Recovery (Wa					
Pipe Recovery:	REVER:	SED OUT			
Problems:					
Remarks:					

REPORT NO. 08723F PAGE NO. 1

# WELL PERFORMANCE TESTING™ REPORT

Schlumberger

TEST DATE: 09-0CT-86 A Production System Analysis (NODAL $^{\rm IM}$ ) Based On Model Verified $^{\rm IM}$  Interpretation

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Company: MERIDIAN OIL, INC.	Well: HAUASU #22-19				
TEST IDENTIFICATION	WELL LOCATION				
Test Type MFE OH DST	Field				
Test No 1	County SAN JUAN				
Formation UPPER ISMAY	State UTAH				
Test Interval (ft) 5683 - 5712	Sec/Twn/Rng				
Reference Depth KELLY BUSHING	Elevation (ft) 5092				
HOLE CONDITIONS	MUD PROPERTIES				
Total Depth (MD/TUD) (ft) 5712 / 5712	Mud Type LSND				
Hole Size (in) 7 7/8	Mud Weight (1b/gal) 8.9				
Casing/Liner I.D. (in)	Mud Resistivity (ohm.m) 2.2 @ 68 DEG. F				
Perf'd Interval/Net Pay (ft) / 30	Filtrate Perietivity (about 2 t a co pro				
Shot Density/Diameter (in)	Filtrate Resistivity (ohm.m) 2.1 @ 68 DE6. F Filtrate Chlorides (ppm) 3000				
INITIAL TEST CONDITIONS					
Initial Hydrostatic (psi) 2723	TEST STRING CONFIGURATION				
Fac Cuchion Tune	Pipe Length (ft)/I.D. (in) 5191 / 3.8				
Gas Cushion Type NONE Surface Pressure (psi)	Collar Length (ft)/I.D. (in) 614 / 2.25				
Liquid Cuchian Tuna	Packer Depths (ft) 5683				
Liquid Cushion Type NONE	Bottomhole Choke Size (in) 15/16				
Cushion Length (ft)	Gauge Depth (ft)/Type 5689/MECHANICAL				
NET PIPE RECOVERY	NET SAMPLE CHAMBER RECOVERY				
Uolume Fluid Type Properties	Volume Fluid Type Properties				
46.38 BBLS.   OIL   41.8 DEG. API @ 60 D	3.84 SCF GAS CORRECTED TO PWF				
BASED ON FINAL FLOW	1590 CC DIL 41.8 DEG. API @ 60				
PRESSURE	41.0 DEG. HI 1 6 DB				
	Pressure: 1100 GOR: 384 GLR: 384				
	Pressure: 1100 GOR: 384 GLR: 384				
INTERPRETATION RESULTS  Model of Behavior	ROCK/FLUID/WELLBORE PROPERTIES  Oil Density (deg. API)				

## PRODUCTION RATE DURING TEST: 3234 BOPD QLAST

#### **COMMENTS:**

THE SHUT-IN PRESSURE BUILD-UP DATA WAS ANALYZED USING HORNER METHOD TO DETERMINE RESERVOIR PARAMETERS OF Kh 
u, P\*, AND SKIN. IT IS BELIEVED THAT THERE IS A CONSTANT PRESSURE BOUNDARY PRESENT; SEE THE ANALYSIS PLOTS IN THE APPENDIX OF THIS REPORT. SKIN SENSITIVITY ANALYSIS HAS BEEN PERFORMED TO FORECAST THE ZONE'S FUTURE PRODUCTION POTENTIAL WITH UARIOUS VALUES OF SKIN, FROM +5 TO -3; THESE PLOTS FOLLOW BEGINNING ON THE NEXT PAGE.

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NO.

SCHLUMBERGER

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REPORT NO. 08723F

PAGE NO. 4

## SEQUENCE OF EVENTS

FLOPETROL JOHNSTON

Schlumberger

EUENT NO.	DATE	TIME (HR:MIN)	DESCRIPTION	ELAPSED TIME (MINS)	BHP (PSIA)	WHP (PSIG)
1	10-9-86	0055	SET PACKER	-1.00	2723	
2		0058	OPENED TOOL - 1/8" CHOKE	0.00	1110	BTM. BUCKT
		0103				150.0
		0108				290.0
3		0110	CLOSED FOR FINAL SHUT-IN	12.86	1635	320.0
		0112	GAS TO SURFACE			289.0
		0130	OIL TO SURFACE		-	
4		0345	FINISHED SHUT-IN	167.94	2085	
5		Ø355	PULLED PACKER LOOSE	177.09	2696	
		<b>0630</b>	REVERSED OUT RECOVERY			-

## BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 08723F

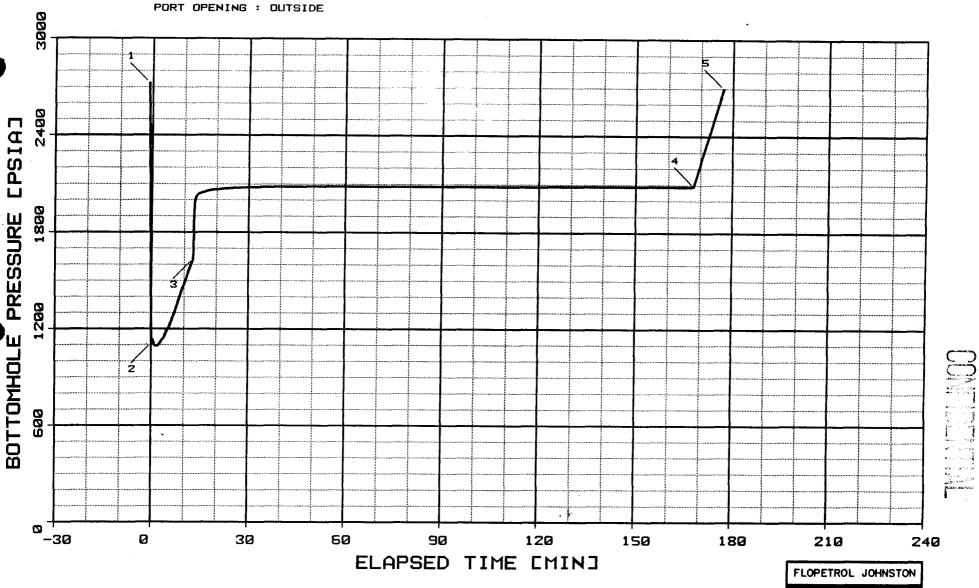
COMPANY : MERIDIAN OIL

INSTRUMENT NO. J 1238

WELL: HAVASU 22-19

CAPACITY : 4700 PSI

DEPTH : 5689 FT



Schlumberger

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#### 

FIELD REPORT # : 08723F

INSTRUMENT # : J 1238

COMPANY : MERIDIAN OIL

CAPACITY [PSI]: 4700. DEPTH [FT]: 5689.0

WELL : HAVASU 22-19

PORT OPENING : OUTSIDE

TEMPERATURE [DEG F] : 130.0

## LABEL POINT INFORMATION

# ***	TIME OF DAY HH:MM:SS ******		EXPLANATION ***********	ELAPSED TIME,MIN	
1	0:57: 0	9-00	HYDROSTATIC MUD	-1.00	2723
2			START FLOW	0.00	1110
3	1:10:52		END FLOW & START SHUT-IN	12.86	1635
4	3:45:56		END SHUT-IN	167.94	2086
5	3:55: 5		HYDROSTATIC MUD	177.09	2696

## SUMMARY OF FLOW PERIODS \*\*\*\*\*\*\*\*\*\*\*

PERIOD *****	TIME, MIN	TIME, MIN	MIN	START PRESSURE PSIA ******	PSTA
1	0.00	12.86	12 86	1110	1635

#### 

<b>LEKTOD</b>	TIME, MIN	TIME, MIN	MIN	PSTA	PRESSURE PSTA	FINAL FLOW PRESSURE PSIA *******	PRODUCING
1	12.86	167.94	155.08	1635	2086	1635	20.65

TEST PHASE : FLOW PERIOD # 1

TIME OF DAY HH:MM:SS ******	DATE DD-MM ****	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA *******
0:58: 0	9-0C	0.00	0.00	1110
1: 3: 0	9-0C	5.00	5.00	1195
1: 8: 0	9-0C	10.00	10.00	1471
1:10:52	9-0C	12.86	12.86	1635

TEST PHASE : SHUTIN PERIOD # 1

FINAL FLOW PRESSURE [PSIA] = 1635 PRODUCING TIME [MIN] = 20.65

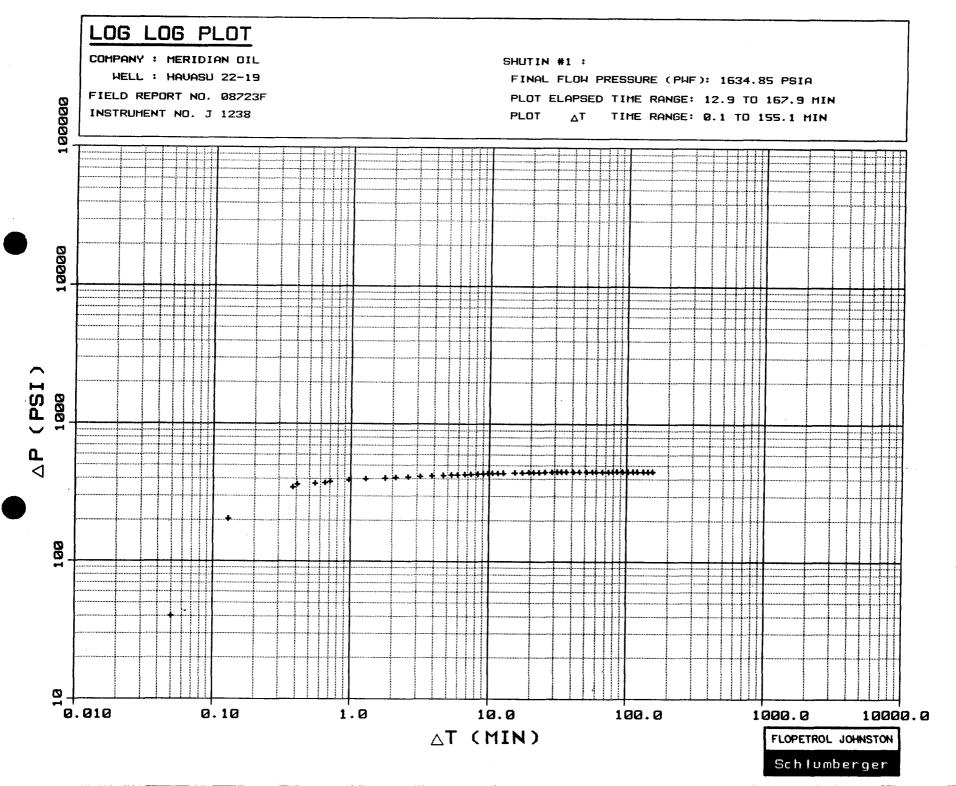
TIME OF DAY HH:MM:SS ******	DATE DD-MM ****	ELAPSED TIME,MIN ******	DELTA TIME,MIN ******	BOT HOLE PRESSURE PSIA *******	DELTA P PSI ******	LOG HORNER TIME *****
1:10:52	9-0C	12.86	0.00	1635	0	
1:11:52	9-0C	13.86	1.00	2024	389	1.335
1:12:52	9-0C	14.86	2.00	2038	404	1.054
1:13:52	9-00	15.86	3.00	2046	411	0.897
1:14:52	9-0C	16.86	4.00	2052	417	0.790
1:15:52	9-00	17.86	5.00	2057	422	0.710
1:16:52	9-0C	18.86	6.00	2060	425	0.648
1:17:52	9-0C	19.86	7.00	2063	428	0.597
1:18:52	9-0C	20.86	8.00	2065	430	0.554
1:19:52	9-00	21.86	9.00	2067	432	0.518
1:20:52	9-0C	22.86	10.00	2069	434	0.486
1:22:52	9-00	24.86	12.00	2071	436	0.435
1:24:52	9-0C	26.86	14.00	2073	438	0.394
1:26:52	9-00	28.86	16.00	2075	440	0.360
1:28:52	9-0C	30.86	18.00	2077	442	0.332
1:30:52	9-0C	32.86	20.00	2078	443	0.308
1:32:52	9-00	34.86	22.00	2079	444	0.287
1:34:52	9-0C	36.86	24.00	2079	444	0.270
1:36:52	9-0C	38.86	26.00	2080	445	0.254
1:38:52	9-0C	40.86	28.00	2080	445	0.240
1:40:52	9-0C	42.86	30.00	2081	446	0.227
1:45:52	9-0C	47.86	35.00	2082	447	0.201
1:50:52	9-00	52.86	40.00	2082	448	0.181
1:55:52	9-0C	57.86	45.00	2083	448	0.164
2: 0:52	9-00	62.86	50.00	2083	448	0.150
2: 5:52	9-0C	67.86	55.00	2083	448	0.138
2:10:52	9-00	72.86	60.00	2083	448	0.128
2:15:52	9-0C	77.86	65.00	2083	448	0.120
2:20:52	9-00	82.86	70.00	2083	448	0.112
2:25:52	9-00	87.86	75.00	2083	448	0.106
2:30:52	9-00	92.86	80.00	2083	448	0.100
2:35:52	9-00	97.86	85.00	2084	449	0.094
2:40:52	9-00	102.86	90.00	2084	449	0.090
2:45:52	9-0C	107.86	95.00	2084	449	0.085

TEST PHASE : SHUTIN PERIOD # 1

FINAL FLOW PRESSURE [PSIA] = 1635 PRODUCING TIME [MIN] = 20.65

TIME OF DAY HH:MM:SS ******	DATE DD-MM ****	ELAPSED TIME,MIN	DELTA TIME,MIN ******	BOT HOLE PRESSURE PSIA *******	DELTA P PSI ******	LOG HORNER TIME
2:50:52 2:55:52 3: 0:52 3: 5:52 3:10:52 3:15:52 3:20:52 3:25:52 3:30:52 3:35:52 3:45:52 3:45:56	9-0C 9-0C 9-0C 9-0C 9-0C 9-0C 9-0C 9-0C	112.86 117.86 122.86 127.86 132.86 137.86 142.86 147.86 152.86 162.86 167.86	100.00 105.00 110.00 115.00 120.00 125.00 130.00 135.00 140.00 150.00 155.00	2084 2084 2084 2084 2084 2084 2084 2084	449 449 449 449 449 449 449 449 450 451	0.082 0.078 0.075 0.072 0.069 0.066 0.064 0.062 0.060 0.058 0.056 0.054

CONFIDENTIAL



## TED STATES

#### SUBMIT IN DUPLI

### DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

(Sec other instructions on reverse side)

Form approved. Budget Bureau No. 1004-0137 Expires August 31, 1985

|--|--|--|

U-56186

•••	LEAGE	DESIGNATION	AND	SEKIAL	

										-				
WELL CO	MPLETION	OR	RECON	APLETI	ON	REPORT	AN	D LO	G *	ŀ		ALLOT		IBB NAME
1a. TYPE OF WEL	L: OH	LL X	GAS WELL	1 0	RY 🗌	Other		····		7 - N	I/A	FATENT	121	020
b. TYPE OF COM						See Les	- T	16767G	J. J. J. T.	,	1 / A	EMENT.	NAME .	
WELL X	OVER DE	EP.	BACK	DIFF	vr.		Wil		1.3		A OR	LEASE N	A M ID	
2. NAME OF OPERAT	or					Me	A7 2300	/~.4	(-)				deral	
MERIDIAN OII						A) A D	FC.	1 5 198	in 1	9. WE		u-re	uerar	
3. ADDRESS OF OPE						D	<u>- U</u> .	10100	<del>70</del>	2	2-19	į		
P. O. Box 18						ſ	NIVIS	SION O	Ε				OR WILDO	CAT
4. LOCATION OF WEI						w State reout	remen	S & MIN	,	F	lavas	u (W	<b>i</b> ldcat	:)
At sufface (	SENW (1850		_	FWL	)	OIE,	GAG	O IVIII	4116C3	11. si	C., T., I	3., M., O	R BLOCK A	ND SURVEY
At top prod. int	erval reported b	elow	Same								· ALLA			
At total depth	Como					•				5	Secti	on 1	9–38s-	-24E
	Same			[ 14 PE	RMIT: NO.	<del></del>	DATE	ISSUED		10 2				
		•		1 .					_	P/	UNTY (	-	13. ST	ATE
15. DATE SPUDDED	16. DATE T.D.	REACHED	17. DATE	COMPL (	037-3			<u>9-18-8</u>	~		<u>Jua</u>			ah
9-30-86	}	0-86		10-20		p, oa.,	S. ELE	VATIONS ()	оғ, ккв. 1 80' G		TC.)*	19. EI	LEV. CASIN	
20. TOTAL DEPTH, MD			T.D., MID & T			TIPLE COMPL		23. INT			RY TOO	1		KB
6074 <b>'</b>		5868			HOW N				LLED BY	X	_	i.	CABLE	TOOLS
24. PRODUCING INTER	IVAL(S), OF THIS			BOTTOM.	NAME (				<del>&gt;</del>		·	1 25	WAS DIRE	ECOTON L
					,				IMI	ı		20.	SURVEY :	
5/68	<b>-</b> 5812'	(Uppe	r Ismay	')		11 ·	nr			1			No	•
26. TYPE ELECTRIC	ND OTHER LOGS	RUN			100	TAIL		ENT	N. IV. IV.		1	27 WA	S WELL C	ORED
	MSL, GR/C		C, Soni	c mus	Cl , !	MAI .	R.A.					-1. "2	No	
28.			CASI	NG RECO	RD TRes	port all string	s set i	in spell)						<u> </u>
CASING SIZE	WEIGHT, LB.	/FT.	DEPTH SET			LE SIZE	1		MENTING	RECORD			AMOUNT	DULLED
13-3/8	61#		75	1.	1	7 1 /0			None	TOLUED				
8-5/8	24#		1,698	1	1	·								
5-1/2	17#		6,072	1		7-7/8 900 sx None								
				<del></del>		<u> </u>	-		····					
29.		LINER	RECORD					30.	1	TUBING	RECO	ORD !		
SIZE	TOP (MD)	вотто	M.(MD)	SACKS CE	MENT.	SCREEN (S	1D)	SIZE	1	OEPTH :	SET (M	D)	PACKER S	ET (MD)
N/A								2-	7/8		981			<del></del>
01														
31. PERFORATION REC	ORD (Interval, s	ize and	number)			32.	AC	ID. SHOT	FRACT	URE. C	EMENT	SQUE	EZE, ETC	Z.
5884 <b>' -</b> 5886	0'  w/4 isp	f				DEPTH IN							ATERIAL U	
CIBP @ 5886'		-				5884	. ' _	5886'	200	0 gal	15%	Hc1		
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	CASING PRESSU		LCULATED -HOUR RATE	011		GAS-	-мсғ.		WATER-				AVITY-API	
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										11977	△ 11177	arron.	7 76 61	4 1

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

35. LIST OF ATTACHMENTS

TITLE Sr. Drilling Engineer

DATE 11/21/86

Dave Overgaard

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

GEOLOGIC MARKERS

FORMATION	MATION TOP BOTTOM DESCRIPTION, CONTENTS, ETC.				ТОР		
			NAME	MEAS, DEPTH	TRUE VERT. DEPTH		
U. Ismay	5683'	5712 <b>'</b>	Times: 10-152. BHT 130°F. No cushion. Pipe recovery: 25 BO, HGC, Gty 40° @ 60°F. Sample chamber: 2500 cc volume, 1100 psi, 1590 cc oil, 2.95 cfg. HP 2738 - 2736; FP 1229 - 1632; SIP 2189.  U. Ismay Top of Ø "A" Shale L. Ismay Top of Ø Gothic Sha Desert Cre Lower Ø Chimney Ro Akah Salt	ek 5830' 5995'			
e <sup>m</sup>							
					A-10		
					*		

# DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT UTAH STATE OFFICE

RECTD MCO 119 10 1014

020831

## OIL OR HAZARDOUS SUBSTANCE DISCHARGE

1.	Investigation Number Date of Spill /- 21-88 Time AM (Military) Spill Notification: by Date Time
	Investigation Date  Investigation Date  Time Investigation Time (manyors)  EPA Notification NA State Division of Health Notification NA
2.	Place of spill ALKALI CAUTON  Legal Description 1385 R 24E Azz 19  County SAN JUAN Nearest Town BLANDING UTAH  Did spill enter a waterway? NO IT so, name Class
	Type of spill (Region VIII Contingency Plan Definitions) major medium / minor
	Responsible Poliutor proprieta CAL Address PICLIEGS ANDT Contact Person (If known) INCL PROCESS PROPRIETATED 256 4.2/
	Type of Operation - check one:
	Pipeline Drilling Refinery Cther  Tank Battery Transportation List Vehicle
	Type of Oil or Product and Amount:
	Gasoline Cruce X Kerosene (RETUEN)
	Cause of spill LEAK IN LINE A FROM LAC METER TO SLOP TINK
	LEST OIL CONTAINED WITHIN FIREWALL.
3.	Draw a simple map showing permanent landmarks and extent of spill on the reverse side of this page.
4.	Cleanup Operations: Date of Cleanup Completion /- 26-88 Time
	Methods - check those which apply:
•	Eurning X Absorption Skimming X Burial X Pumping X Other (explain)
	Erief summary of cleanup operation (problem, etc.)  CIL CONTAINED WITHIN FIREWALL WILL BE PUNDED OUT REMAINING  OIL WILL BE BURNED AND ANY RESIDUE REMOVED to RESERVE PIT  ON 42-24
5.	Remarks /

43-037-31287 Pow 43-037-31314 Orl. (conf.)

43-037-31301 Prl. (Conf.)

43-037-31296 Orl. (conf.)

43-037-31302 Drl. (conf.)

43-037-31282 POW 43-037-31278 POW

43-037-31300 Orl. (conf.)

43-037-05-E

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	<u> </u>	FFR 24 1088	N/A	
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S. ADDRESS OF OPERATOR		DIVISION UI	9. WELL RO.	
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			SURVET OR AREA	
14. PERMIT NO.			Section 19-38S-2	
43-037-31278	nons (Show whether pr. at 5092 KB		12. COURTY OR PARISE 13.	_
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(Other)		(NOTE - Panore see	SL GAS SATES results of multiple completion on We completion Report and Log form.)	<u>. X</u>
Notice of First Gas Sales - Fe	bruary 18, 198	8.		
i hereby certify that the foregoing is true and co	Frect			

\*See Instructions on Reverse Side

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CONDITIONS OF APPROVAL, IF ANY:				DATE	



Norman H. Bangerter, Governor Dee C. Hansen, Executive Director Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

June 6, 1988

Meridian Oil Inc. P.O. Box 1855 Billings, Montana 59103

#### Gentlemen:

#### Re: Request for Gas Venting or Flaring Approval

The Division of Oil, Gas And Mining has received several sundry notices requesting standing approval for emergency gas venting or flaring for the following wells in San Juan County:

Havasu Federal #22-19, Sec. 19, T. 38S, R. 24E Havasu Federal #41-24, Sec. 24, T. 38S, R. 24E Havasu Federal #42-24, Sec. 24, T. 38S, R. 24E Cherokee Federal #11-14, Sec. 14, T. 37S, R. 23E Cherokee Federal #22-14, Sec. 14, T. 37S, R. 23E Cherokee Federal #33-14, Sec. 14, T. 37S, R. 23E Cherokee Federal #43-14, Sec. 14, T. 37S, R. 23E

Your request was reviewed with Board of Oil, Gas and Mining during the informal briefing session of their May 26, 1988 Board meeting.

The Board determined that your request for standing approval to vent or flare gas from the subject wells on an emergency basis shall not be granted. It was the opinion of the Board that in cases of emergency venting or flaring, you must immediately notify the Division and properly report the volumes and duration of any such venting or flaring. The Division shall review all emergency venting or flaring of gas to ensure that such action is unavoidable and adheres to principles of proper conservation.

In this situation, the Board has granted the Division administrative authority to allow gas venting or flaring from the subject wells for verifiable emergencies. If, in the opinion of the Division staff, any reported venting or flaring is not justified, the Division will inform the Board and further action may be taken in accordance with the rules and orders of the Board.

Page 2 Meridian Oil Inc. June 6, 1988

The factors which the Division may consider in reviewing emergency gas venting or flaring are:

- 1. The disruption of gas transportation and the reasons for such disruption.
- 2. The ability of Meridian to restrict production as long as correlative rights are protected and without causing waste.
- 3. The potential for any other conservation oriented alternative to gas venting or flaring.

If you have any further questions concerning this action, please contact John Baza at the letterhead address and telephone number. Thank you for your consideration in this matter.

Best regards,

Dianne R. Nielson

Director

**JRB** 

cc: R. J. Firth Well files

0458T-50-51

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P. O. Box 1855, Billings, MT 59103 UL, GAS & MAINS  procuring or yatt, (Report location clearly and in accordance with any State requirements.*  SENN (1850' FNL - 1255' FWL)  SENN (1850' FNL - 1255' FWL)  SENN (1850' FNL - 1255' FWL)  Section 19, T38S, R2  Check Appropriate Box To Indicate Noting of Notice, Report, or Other Data  ROTTED OF PRINTERS OF INTERSTRUCT OR  SOUTH OF ALARM CARRY CARRY  RABIDON'  ROTTED OF ALARM CARRY CARRY  RABIDON'  SEND WELL AND TO ALARM CARRY  RABIDON'  ROTTED OF ALARM CARRY  RABIDON'  REPAIRING WALL  RAPPONTERS OF COMPLETED OFFACTIONS (Clearly state all pertinent details and give pertinent dates, including emission and measured and true vertical depths for all inserters and soone per complete on water for the work, and the complete of the complete of the work, and the complete of the work, and the complete of the complete of the complete of the work, and the complete of the c	MERIDIAN OIL INC.			0 0 0 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1			cal
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SENW (1850' FNL - 1255' FWL)    The second control of the second c	LOCATION OF WELL (Report locations also space 17 below.)	on clearly and in acco	rdance with any State	requirements.			R WILDCAT
PERMIT SO.  18. BLEVATIONS (Show whether DP, ET, OR, SO.)  18. COUPET OR PARISE 18. SAN JUAN  Check Appropriate Box To Indicate Notice, Report, or Other Date  NOTICE OF INTERFED TO:  THEST WATER SHUT-OFF PRACTURE TRANS  SINCE COLUMN ANABORMS  PRACTURE TRANS  SINCE COLUMN ANABORMS  PRACTURE TRANS  SINCE COLUMN ANABORMS  CHANGE PLANS  CHANGE PLANS  CHANGE PLANS  CHANGE PLANS  SINCE OF STREET OF TRANSHIPS  SINCE OF TRANSHIPS	ž.	<b>.</b>					
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Check Appropriate Box To Indicate Nature, of Notice, Report, or Other Data  **ROTICE OF INTENTION NO.**  **PRICE O	43-037-31278		5092' KB	# 2 - 2 A - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2			
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GOING Shut Well In  (Other) Shut Well In  (O			·    '		<b>├</b>		<u> </u>
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rent to this work.] well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and sones persons to this work.] well will be shut in effective August 8, 1988 awaiting completion of waterflood facilities. Tentative date of return to production December 1, 1988.  I beredy certify that the foregoing is true and correct  SIGNED AND TITLE Production Superintendent DATE 8/5/88  (This space for Foderal or State office use)  APPROVED BY				Completion or R	ecompletion Re	ple completion ort and Log fo	on Well rm.)
SIGNED SIGNED Production Superintendent DATE 8/5/88  (This space for Federal or State office use)  APPROVED BY	Well will be shut facilities. Tenta	in effective tive date of	August 8, 198 return to pro	38 awaiting conduction Decemb	pletion oper 1, 198	f waterf]	Lood
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SIGNED AND STATE Production Superintendent DATE 8/5/88  (This space for Federal or State office use)  APPROVED BY			*		•		·.
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APPROVED BY DATE DATE		Affice man's		erron substitut	engent t	ATD º/	00 اد
CONDITIONS OF APPROVAL, IF ANT:							
		LP ANY:	TITLE		<b>r</b>	ATE	
SLM (3) (0)2( (3)	BLM (3), UOGC (3)						

\*See Instructions on Reverse Side

	S. LEASE DESIGNATION & SERIAL NO.
SUNDRY NOTICES AND REPORTS ON WELLS  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  Use "APPLICATION FOR PERMITTING TO BE THE PROPERTY OF T	U 56186 6. IF INDIAN, ALLOTTEE OR TRIBE MAN
Use "APPLICATION FOR PERMIT" for such proposals.)	N/A
WELL X WELL OTHER	1. UNIT AGREEMENT NAME
2 NAME OF OPERATOR  Meridian Oil Inc.	Kachina  E. FARM OR LEASE NAME
1. ADDRESS OF OPERATOR	•
1601 Lewis, Ste. 208, Billings, MT 59102	12-19, 12-19A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  At surface  OOT () D 1000	and 22-19
Section 19-38S-24E  At proposed prod. zone  At proposed prod. zone	Kachina
· Byggin of	11. SEC., T., R., M., OR SLK. AND SURVEY OR AREA
14. DI 10.  15. ELEVATIONS (Show whether DF, RT, GR, etc.)	Sec. 19-38S-24E
43-037-31278	12. COUNTY 13. STATE
Check Appropriate Box To Indicate Nature of Notice, Report or O	San Juan UT
PULL OR ALTTE CLERKE	QUENT REPORT OF:
FRACTURE TREAT  MULTIPLE COMPLETE  FRACTURE TREATMENT  SHOOT OR ACIDIZE  FRACTURE TREATMENT	REPAIRING WELL
REPAIR WELL	ALTERING CASING ABANDONMENT*
(Other) Notice of	Flaring +-
APPROX. DATE WORK WILL START	of multiple completion on Well mpletion Report and Log form.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give starting any proposed work. If well is directionally drilled, give subsurface locations and measured and triplet to this work.)	pertinent dates, including estimated date of ue vertical depths for all markers and zones
* Must be accom	panied by a cement verification report
El Paso Plant was down for mechanical problems, caus Processors' Kachina plant to go down. 484 MCF was fin Section 19 of Kachina Field.  Verbal approval to flare was obtained from both the BLM on Monday, September 25th.	lared by wells
Western's Gas Plant was back in operation at 0800 on	9/28/89.
	·
. I hereby certify that the factor	
SIGNED Has the forgeoing is true and correct	
TITLE A CA SURIL .	_ DATE 9/39/89
(This space for Federal or State office use)	
APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:	Dame
The state of the s	DATE

FORM 3160-5

UNITED STATES

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#### SUBMIT IN TRIPLICATE

FORM APPROVED Budget Bureau No. 100 Expires September 30	)4-0 ), 1	135 990
ase Designation and Se U-56186	∍ria	1 No

December 1989  DEPARTMENT OF THE INT BUREAU OF LAND MANAG		5. Lease Designation and Serial No. U-56186			
SUNDRY NOTICES AND REPORTS Do not use this form for proposals to drill different reservoir. Use "APPLICATION FOR P	DIVISION OF ON WELLS II GAS & MINING or to deepen or reentry to a ERMIT" for such proposals	6. If Indian, Allottee or Tribe Name			
1. Type of Well Oil Gas Well XX Well	Other .	7.If Unit or CA, Agreement Designation Kachina Unit			
2. Name of Operator Meridian Oil Inc.		8.Well Name and No. Havasu Federal 22—19			
3. Address and Telephone No. 5613 DTC Parkway; Englewood, CO 80111	(303) 930–9300	9.API Well No. 43-037-31278			
4. Location of Well (Footage, Sec., T.R.M. o	r Survey Description)	10.Field and Pool, or Exploratory Area Kachina Unit			
SENW Sec. 19-T38S-R24E		11.County or Parish, State San Juan, UT			
12. CHECK APPROPRIATE BOX(s) TO I	NDICATE NATURE OF NOTICE, RE	PORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE O	FACTION			
Notice of Intent	Abandonment Recompletion	Change of Plans New Construction			
XX Subsequent Report	Plugging Back	Non-Routine Fracturing Water Shut-Off			
Final Abandonment Notice	Altering Casing	Conversion to Injection			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

XX Other Change of lift system: Rotoflex to sub-pump

Describe Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

5-1-92 to 5-3-92:

Changed Rotoflex pump system to ODI Electric Submersible Pump.

JUNUION OF OIL GOS A MINIMO

14. I hereby certify that the foregoing is true and corn	rect			
	Title	5r. Prod. Engr	Date	6.2.92
(This space for Federal or State office use)				
Approved byCondition of Approval, If any:	Title		Date	

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

<sup>1</sup>/<sub>2</sub>03730518 02815

4301916203 09515

√NAVAJO FEDERAL 9-1

√NAVAJO FEDERAL 4-2

NAVAJO FEDERAL #4-4

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4303731278 10654

HAVASU-FEDERAL #22-19

√HAVASU-FEDERAL #41-24

4303731279 10654 385

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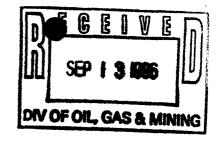
11 20895

### MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:			UTA	AH ACCOUNT NUMB	N7230	
MARALENE SPAWN MERIDIAN OIL INC PO BOX 3209			REI	PORT PERIOD (MONT	TH/YEAR): 7 / 96	
ENGLEWOOD CO 80155-32	09		AM	ENDED REPORT□ (	(Highlight Changes)	
Well Name	Producing	Well	Days	T	D. I	
API Number Entity Location	Zone	Status	Oper	OH (DDV)	Production Volumes	
✓INDIAN CREEK #1		Juitus	Oper	OIL(BBL)	GAS(MCF)	WATER(E
4301530082 02585 17S 06E 2 ✓ INDIAN CREEK 10176-5	FRSD			mL27626	E. mh. Unit	
4301530117 02585 17S 06E 10 VINDIAN CREEK UNIT 021762-3	FRSD			K15203	E.m.n.Unit	
4301530175 02585 17S 06F 2	FRSD			415204	E. min. Unit	
√13-35 EMU HRE FEDERAL 4301530230 02585 16S 06E 35	FRSD			456933	E. M. Unit	
E MOUNTAIN UNIT 32-23 4301530231 02585 165 06E 23	FRSD			117024	E. mtn. Unit	
HATCH POINT 27-1A				1 1021	L. Man. Maci	

Kechinellnit **TOTALS** )MMENTS: sereby certify that this report is true and complete to the best of my knowledge. Date: me and Signature: Telephone Number:\_\_\_

### MERIDIAN OIL



September 10, 1996

State of Utah
Division of Oil, Gas and Mining
355 1594 West North Temple
Salt Lake City, UT 84180

Re:

Name Change from Meridian Oil Inc. to

Burlington Resources Oil & Gas Co.

Gentlemen:

Please be advised effective July 11, 1996 Meridian Oil Inc. changed their name and address to:

Burlington Resources Oil & Gas Co. 3300 North "A" St., Bldg. 6 Midland, TX 79710-1810

Please see the attached list of wells that Burlington Resources operates in the State of Utah. If you should have any questions, please contact me at (303) 930-9393 or after September 30th at (915) 688-6800.

Sincerely,

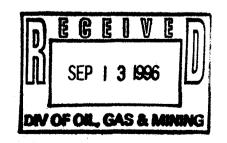
BURLINGTON RESOURCES OIL & GAS CO.

Eileen Danni Dey

Senior Regulatory Compliance Representative

Enclosure

			T		•				·		
	-										
											STATE
-										FEDERAL LEASE	CONTRO
FIELD	WELL NAME	WELL NO		COUNTY	OCATIO	SEC	TWN	RGE	API NUMBER	NUMBER	NO.
BANNOCK	BANNOCK FEDERAL	21-33	ISMAY	SAN JUAN	NENW	33	038S	024E	43-037-3142500	UTU60786A	1092
CEDAR MOUNTAIN	EAST CANYON UNIT	33-18	CEDAR MOUNTAIN	GRAND	NWSE	18	016S	025E	43-019-1620300	UTU05059	951
EAST MOUNTAIN	EAST MOUNTAIN FEDERAL	13-35	FERRON	EMERY	NWSW	35	0168	006E	43-015-3023000	57287U6920	1078
ÉAST MOUNTAIN	EAST MOUNTAIN FEDERAL	32-23	FERRON	EMERY	SWNE	23	0168	006E	43-015-3023100	57287U6920	1107
FERRON	INDIAN CREEK UNIT	1	FERRON	EMERY	SWNW	02	0178	006E	43-015-3008200	57287U6920	0258
FERRON	INDIAN CREEK UNIT	3	FERRON	EMERY	swsw	02	017S	006E	43-015- <del>310750</del> 0	57287U6920 30	
FERRON	INDIAN CREEK UNIT 10176	5	FERRON	EMERY	SENE	10	017S	006E	43-015-3011700	57287U6920	0258
FERRON	INDIAN CREEK UNIT 14176	2	FERRON	EMERY	SWNE	14	0178	006E	43-015-3009100	UTU15202	1090
KACHINA	ARABIAN FEDERAL (WiW)	2	ISMAY	SAN JUAN	NWSW	19	0388	024E	43-037-3128200	UTU56186	1065
KACHINA	ARABIAN FEDERAL	3	ISMAY	SAN JUAN	NESW	19	0388	024E	43-037-3128700	UTU56186	1065
KACHINA	HAVASU FEDERAL (Wiw)	11-19	UPPER ISMAY	SAN JUAN	NWNW	19	0388	024E	43-037-3145800	UTU56186	1065
KACHINA	HAVASU FEDERAL	12-19	UPPER ISMAY	SAN JUAN	SWNW	19	038S	024E	43-037-3145700	UTU56186	1065
CHINA	HAVASU FEDERAL	12-19A	ISMAY	SAN JUAN	SWNW	19	0388	024E	43-037-3145900	UTU56186	1065
CHINA	HAVASU FEDERAL	22-19	UPPER ISMAY	SAN JUAN	SENW	19	0388	024E	43-037-3127800	UTU56186	1065
KACHINA	HAVASU FEDERAL	41-24	UPPER ISMAY	SAN JUAN	NENE	24	0388	023E	43-037-3127900	UTU20895	1065
KACHINA	HAVASU FEDERAL (ωίω)	42-24	UPPER ISMAY	SAN JUAN	SENE	24	038S	023E	43-037-3129800	UTU20895	1065
KACHINA	WASH UNIT / WSW	2	CUTLER	SAN JUAN	SESE	13	0388	023E	43-037-3132400	UTU20894	1065
KÍVA (DESERT CREEK)	NAVAJO FEDERAL	41-5	DESERT CREEK	SAN JUAN	NENE	05	0398	025E	43-037 <del>-2542100</del>	UTU57895 <i>3[3]</i>	
KÍVA (UPPER ISMAY)	KIVA FEDERAL	24-4	ISMAY	SAN JUAN	SESW	04	039S	025E	43-037-3174500	83687U6890	0997
KIVA (UPPER ISMAY)	NAVAJO FEDERAL (ωίω)	12-4	ISMAY	SAN JUAN	SWNW	04	0398	025E	43-037-3139500	83687U6890	0997
KIVA (UPPER ISMAY)	NAVAJO FEDERAL (WW)	14-4	ISMAY	SAN JUAN	swsw	04	0398	025E	43-037-3132100	83687U6890	0997
KIVA (UPPER ISMAY)	NAVAJO FEDERAL (ωω)	21-9	ISMAY	SAN JUAN	NENW	09	0398	025E	43-037-3126700	83687U6890	0997.
KÍVA (UPPER ISMAY)	NAVAJO FEDERAL (wiw)	23-4	UPPER ISMAY	SAN JUAN	NESW	04	0398	025E	43-037-3125900	83687U6890	0997.
KIVA (UPPER ISMAY)	NAVAJO FEDERAL '	4-2	ISMAY	SAN JUAN	SWSE	04	0398	025E	43-037-3116100	83687U6890	09975
KÍVA (UPPER ISMAY)	NAVAJO FEDERAL	4-4	ISMAY	SAN JUAN	NWSW	04	0398	025E	43-037-3117900	83687U6890	***************************************
KIVA (UPPER ISMAY)	NAVAJO FEDERAL	42-5	UPPER ISMAY	SAN JUAN	SENE	05	0398	025E	43-037-3117900	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL / ಬ5ಬ	42-9	WINGATE/CUTLER	SAN JUAN	SENE	09	0398	025E	43-037-3126300		10655
KÍVA (UPPER ISMAY)	NAVAJO FEDERAL		UPPER ISMAY	SAN JUAN	NWNE	09	0398	025E	43-037-3126300	83687U6890	09975
KÍVA (UPPER ISMAY)	NAVAJO FEDERAL (WIW)	·····	·h	SAN JUAN	SESW	04	039S	025E	43-037-3100100	83687U6890	09975
KÍVA (UPPER ISMAY)	NAVAJO FEDERAL (WIW)	······		SAN JUAN	NWSW	05	039S	025E	······································	83687U6890	09975
ŁION MESA	HATCH POINT FEDERAL	·····j································		SAN JUAN	NESW	27	0393 027S	023E 021E	43-037-3131700	83687U6890	09975
				D. LI JUAN	MEDM	21	02/3	UZIE	43-037-3051800	8910184250	02815

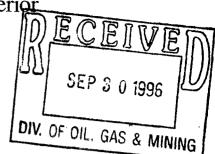




United States Department of the Interior

#### **BUREAU OF LAND MANAGEMENT**

Utah State Office P.O. Box 45155 Salt Lake City, UT 84145-0155



In Reply Refer To 3100 SL-071010C (UT-932)

SEP 2 6 1980

#### **NOTICE**

Burlington Resources Oil & Gas Company 801 Cherry Street Suite 900

801 Cherry Street, Suite 900 Fort Worth, Texas 76102

Oil and Gas SL-071010C

#### Corporate Name Change Recognized

Acceptable evidence has been filed in this office concerning the corporate name change from Meridian Oil Inc. to Burlington Resources Oil & Gas Company.

For our purposes, the name change is recognized effective July 12, 1996, the date the Secretary of State of Delaware certified the name change.

The oil and gas lease files identified on the enclosed exhibit have been noted as to the name change. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice. If additional documentation for changes of operator are required by our field offices, you will be contacted by them.

A rider to Bond No. 400IA9059 (BLM Bond No. MT0719) has been accepted by the Montana State office as of September 16, 1996, its date of receipt. The rider changed the name on the bond from Meridian Oil Inc. to Burlington Resources Oil & Gas Company.

### ROBERT LOPEZ

Robert Lopez
Group Leader,
Minerals Adjudication Group

#### **Enclosure**

Exhibit (1 p)

cc:

MMS, Data Management Division, P.O. Box 5860, MS 3113, Denver, Colorado 80217

Moab District Office Vernal District Office

bc:

State of Utah, ATTN: Lisha Cordova, Division of Oil, Gas and Mining, P.O. Box 145801,

Salt Lake City, Utah 84114-5801

Teresa Thompson (UT-931) Irene Anderson (UT-932)

### **Exhibit of Leases Affected**

Division	n of Oil, Gas and Mining	Davis A
		Routing:
OPE	RATOR CHANGE WORKSHEET	1-12-C
		2-GLAST 7-KDR
	h all documentation received by the division regarding this change.	3-DT8215 8-SJ
Initial	each listed item when completed. Write N/A if item is not applicable.	4-VLD 9-FILE
		5-RJF
XXX C	hange of Operator ( <del>well sold</del> )    Designation of Agent	2-K1F V
	· · · · · · · · · · · · · · · · · · ·	
	Designation of Operator XXX Operator Name Change Only	•
The o	perator of the well(s) listed below has changed, effective: 7-11-96	<del>_</del>
TO: (1	new operator) BURLINGTON RESOURCES O&G CO. FROM: (old operator)	MEDIDIAN OIL INC
`.	(address) 3300 N "A" ST BLDG 6 (address)	
	(address) 3300 N "A" ST BLDG 6 (address) MIDLAND TX 79710-1810	PO BOX 3209
	EILEEN DANNI DEY	ENGLEWOOD CO 80155-3209
		EILEEN DANNI DEY
	Phone: (915)688-6800	Phone: (303)930-9393
	Account no. N7670	Account no. N7230
		<u> </u>
WELL	(S) attach additional page if needed: *KACHINA, KIVA, EAST MOUNTAI	N, BANNOCK UNIT'S
Name:	**SEE ATTACHED** API: Entity: S T	D I
Name:	API: Entity: S T	R Lease:
Vame:	API: S T	R Lease: R Lease:
Vame:	API: Entity: S T	R Lease:
Vame:	API: Entity: S T	
Vame:	API: S T	
Vame:	API: Entity: S T	R Lease:
		R Lease:
OPER/	ATOR CHANGE DOCUMENTATION	
Lec 1	(r649-8-10) Sundry or other local documents:	
A -	(r649-8-10) Sundry or other legal documentation has been received (attach to this form). (h./d 9-13-96)	d from the FORMER operator
J	(actual to this form). \[ \kappa_{e'}\d 9-13-96\]	· · · · · · · · · · · · · · · · · · ·
Le 2.	(r649-8-10) Sundry or other legal documentation has been as the	•
	(r649-8-10) Sundry or other legal documentation has been received f to this form). (fee'd 9.13-96)	rom the NEW operator (Attach
Lec 3.	·	
<u>Le</u> 3.	The Department of Commerce has been contacted if the new operator any wells in Utah. Is the company registered with the state?	ohana ia aka ak
	any wells in Utah. Is the company registered with the state? was no	above is not currently operating
,	any wells in Utah. Is the company registered with the state? (yes/no file number: #096593 . (EH. 1-29-87)	If yes, show company
y Lec_4.	(////	
<u>lec 4.</u>	FOR INDIAN AND FEDERAL WELLS ONLY. The BLM has been of Make note of BLM status in comments section of this form. BLM approximation of the section of the sec	onto ato di no condini e di ini il
	Make note of BLM status in comments section of this form. BLM approperator changes should ordinarily take place prior to the division	contacted regarding this change.
	operator changes should ordinarily take place prior to the division completion of steps 5 through 9 below	oval of rederal and Indian well
0	completion of steps 5 through 9 below.	on s approval, and before the
4	Calua P	man S
<u>uc</u> 5.	Changes have been entered in the Oil and Gas Information System (3:	270\ ( 1 1111 1 1 1
		270) for each well listed above.
<i>Lef</i> 6.	Cardex file has been updated for each well listed above. (10-3-97)	
f	<b>4</b>	
<u>u</u> 7.	Well file labels have been updated for each well listed above. (10-3-9)	7
/		<i>(</i>
<u>ec</u> 8.	Changes have been included on the monthly "Operator, Address, and distribution to Trust Lands, Sovereign Lands, LICS, Tox Commission	Account Changes" mama for
0	distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission,	eta (1, 24)
V	, and commission,	CIL. (10-3-76)

OPERATOR NAME AND ADDRESS:

Page 1	of	2	
	O.	_	

N7670

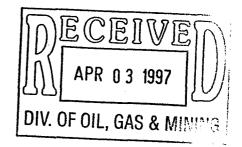
### MONTHLY OIL AND GAS PRODUCTION REPORT

			UTA	H ACCOUNT NUMBE	ER:		
MARALENE SPAWN BURLINGTON RESOURCES OF 3300 N A ST BLDG 6		REPORT PERIOD (MONTH/YEAR): 2 / 97					
MIDLAND TX 79710-1810			AME	ENDED REPORT (	Highlight Change	es)	
Vell Name	Producing	Well	Days	T	Production Volume		
API Number Entity Location	Zone	Status	Oper	OIL(BBL)	GAS(MCF)		
INDIAN CREEK #1 4301530082 02585 175 06E 2 INDIAN CREEK 10176-5	FRSD			ML 27626	0.20101)	WATER(BBL)	
4301530117 02585 175 06E 10 INDIAN CREEK UNIT 021762-3	FRSD			U-15203			
4301530175 02585 17S 06E 2	FRSD			U-15204			
4301530230 02585 168 06E 35 E MOUNTAIN UNIT 32-23	FRSD			U-56933			
4301530231 02585 165 06E 23 HATCH®POINT=27-1A/	FRSD	· · · · · · · · · · · · · · · · · · ·		U-17024			
4303730518 02815 275 21E 27 /AJO FEDERAL 9-1	CNCR			U-20016			
4303731001 09975 395 25E 9 NAVAJO FEDERAL 4-2	ISMY	1		U-52333			
4303731161 09975 39S 25E 4 NAVAJO FEDERAL #4-4	ISMY			U-52333		·	
4303731179 09975 395 25E 4 24-4 KIVA FEDERAL	ISMY			U-52333			
4303731745 09975 395 25F 4 HAVASU∋FEDERAL≅#22-10	ISMY			U-52333		,	
4303731278 10654 385 24E 19 HAVASU-FEDERAL #41-24	ISMY			U-5le18le	Kachina Unit	Sec. Recovery	
4303731279 10654 385 23E 24 ARABIAN FEDERAL #34	ISMY			U-20895	11		
4303731287 10654 385 24E 19	IS-DC			U-56186	ll		
		•	TOTALS				
MMENTS: * OHLI wells pending;	partial c	change	only	. ( See Separ	rate change)	7	
		<del>,</del>				· · ·	
·			<del></del>				
wy certify that this report is true and complete to the	ne best of my	knowledge.		Da	te:		
ne and Signature:					elephone Number:	, ————————————————————————————————————	
93)				I	elephone raumoer		

#### MERIT ENERGY COMPANY

12222 MERIT DRIVE, SUITE 1500 DALLAS, TEXAS 75251 (972) 701-8377 (972) 960-1252 Fax





Utah Division of Oil, Gas and Mining Attn: Ms. Lisha Cordova **1594 West North Temple Suite 1210** Salt Lake City, Utah 84114

RE:

**Change of Operator to Merit Energy Company** 

**Emery and San Juan County** 

Dear Ms. Cordova:

Enclosed please find a copy of Form 3160 executed by both parties, Merit Energy and Burlington Resources.

If additional information or forms are required to process this transaction, please contact me at 972-701-8377.

Yours very truly,

MERIT ENERGY COMPANY

Manager, Regulatory Affairs

(June 1990)

#### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FC	ORM AI	PRO	OVED
Budget	Bureau	No.	1004-0

0135 Expires March 31, 1993 5. Lease Designation and Serial No.

VAUNITS	NOTICES	ANTO	DEBODEC	ON WELLS
SOMER	ILO TICEO	AIND	REPURIS	UN WELLS

SUNDRY NOTICE  Do not use this form for proposals to drill or to	UTU56186	
Use "APPLICATION FOR I	6. If Indian, Allottee or Tribe Name	
SUBMIT IN	7. If Unit or CA, Agreement Designation	
1. Type of Well		
X Oil Well Gas V	Well Other	
2. Name of Operator		8. Well Name and No.
BURLINGTON RESOURCES OIL & GAS	COMPANY	HAVASU FEDERAL 22-19
3. Address and Telephone No (915)688-6800		9. API Well No.
P. O. BOX 51810, MIDLAND, TX 79710-	1810	43,037,3127800
4. Location of Well (Footage, Sec., T., R., M.,	or Survey Description)	10. Field and Pool, or Exploratory Area
1850' FNL - 1255' FWL , SENW		KACHINA ,ISMAY
19 038S 024E, SLM		11. County or Parish, State
12 CUECK APPROPRIE		SAN JUAN , UT
12. CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOT	ICE, REPORT, OR OTHER DATA
TYPE OF SUBMISSION		PE OF ACTION
Notice of Intent	Abandonment	Change of Plans
	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
Final Abandonment Notice		
That Abaildoinneit Notice	Altering Casing	Conversion to Injection
	X Other CHANGE OF	Dispose Water
	OPERATOR	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
12		
<ol> <li>Described Proposed or Completed Operations (Clear work. If well is directionally drilled give subsurface</li> </ol>	rly state all pertinent details and give pertinent date	s including estimated date of starting any proposed
work. If well is directionally drilled, give subsurfac	e locations and measured and true vertical depths for	or all markers and zones pertinent to this work.)*
EFFECTIVE JANUARY 1, 1997	, BURLINGTON RESOURCES OF	L & GAS COMPANY, THE OPERATOR OF
- COLOR OF THE HATASO PEDERAL.	V-19 WELL TRANSFERDED ATT O	TO THE DIGITAL ATTEMPTS OF THE THEORY OF THE THEORY OF THE THE THEORY OF THE THE THE THE THEORY OF THE THEORY OF THE THEORY OF THE
WEED TO MEIGHT ACTIVERS, L.P. (AS	TO 92.4%) AND MERTI ENERGY I	PARTNERS III, L.P. (AS TO 7.6%), C/O MERIT
ENERGY COMPANY, 12222 MERIT DRI	VE, DALLAS, TX 75251.	11. (16 10 1.070), C/O MEIGI
ON APRIL 1, 1997, MERIT ENER	RGY COMPANY, GENERAL PARTN	ER FOR MERIT PARTNERS, L.P. AND MERIT
BUSING! FARTIVERS III, E.F., WILL I	AKE OVER PHYSICAL OPERATION	ONS OF SAID WELL ON BEHALF OF SAID
LIMITED PARTNERSHIPS.		
Id Thombus and Call and Call		
14. I hereby certify that the foregoing is true and	Correct.	
Signed	Title Attorney-in-Fact	Deta 36 - 1 21 1000
Kent Beers	The state of the s	Date March 31, 1997
(This space for Federal or State office use)		
Approved By	-	
Condition of Approval, If any:	Title	Date
Title 18 U.S.C. Section 1001, makes it a crime for any party false, fictitious or fraudulent statement or representati	erson crowingly and withfully to make to any dena	Iment or agency of the United States
my false, fictitious or fraudulent statement or representati	ons ad th any militar within its invisiting in	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

### CHANGE OF OPERATOR STATE OF - UT

COUNTY	FIELD NAME	WELL NAME	<u>STR</u>	LSE#	WELLTYPE.	APIWELL	COMM NO.	FED CNTRL	ST	CNTRL
EMERY	EAST MOUNTAIN ,FERRON	EAST MOUNTAIN FEDERAL 13-35	35 016S 006E	راً. ML-27626	GAS WELL	43,015,3023000	UT060P49-67U69	57287U6920	025	1156933
MERY	EAST MOUNTAIN ,FERRON	EAST MOUNTAIN FEDERAL 32-23	23 016S 006E		GAS WELL	43,015,3023100	UT060P49-87U69	57287U6920	025	u17674
<b>HERY</b>	FERRON FERRON	INDIAN CREEK 021762 3	02 017S 006E	7 ML-27626	GAS WELL	43,015,3017500		57287U6920	025	ü15204
MERY	FERRON ,FERRON	INDIAN CREEK 1	02 017S 006E	ML-27626	GAS WELL	43,015,3008200		57287U6920	025	mL-27626
MERY	FERRON FERRON	INDIAN CREEK 101765	10 017S 006E	7. ML-27626	GAS WELL	43,015,3011700		57287U6920	025	115203
ERY	FERRON FERRON	INDIAN CREEK 14176 1	14 017S 006E	UTU15202	GAS WELL	43,015,3009100		UTU15202	109	U15202
NAUL N	BANNOCK, ISMAY	BANNOCK FEDERAL 21-33	33 038S 024E	UTU60786	OIL WELL	43,037,3142500	60786A	UTU60786A	109	u 40361
NAUL N	KACHINA ,CUTLER	WASH UNIT 2	13 0389 023E	UTU20894	WATER SOURCE	43,037,3132400		UTU20894	106	11 20894 161
MAUL M	Kachina ,ismay	ARABIAN FEDERAL 2	19 038S 024E	UTU56186	WATER INJECTED	43,037,3128200		UTU56186	106	u 56186
MAUL M	KACHINA ,ISMAY	HAVASU FEDERAL 11-19	19 038S 024E	UTU56186	WATER INJECTED	43,037,3145800		UTU56186	106	U56186
N JUAN	KACHINA ,ISMAY	HAVASU FEDERAL 12-19	19 038S 024E	UTU56186	ON WELL	43,037,3145700		UTU56186	106	u 56186
NAUL N	Kachina Jamay	HAVASU FEDERAL 12-19A	19 038\$ 024E	UTU56186	OIL WELL	43,037,3145900		UTU56186	- 106	1156.186
NAUL V	KACHINA JISMAY	HAVASU FEDERAL 22-19	19 038S 024E	UTU56186	OIL WELL	43,037,3127800		UTU56186	106	456186
NAUL I	KACHINA JSMAY	HAVASU FEDERAL 41-24	24 038\$ 023E	UTU20895	OIL WELL	43,037,3127900		UTU20895	106	u 20895
NAUL	Kachina Jsmay	HAVASU FEDERAL 42-24	24 038S 023E	UTU20895	WATER INJECTED	43,037,3129800		UTU20895	106	U 20875
										CIOUX

### CHANGE OF OPERATOR STATE OF - UT

COUNTY	FIELD NAME	WELL NAME	<u>STR</u>	LSE#	WELLTYPE.	APIWELL.	COMM NO.	FED CNTRL	ST	CNTRL
NAUL NA	KACHINA ,ISMAY-DESERT CREEK	ARABIAN FEDERAL 3	19 036S 024E	UTU58186	OIL WELL	43,037,3128700		UTU56186	106	456186
NAUL NA	KIVA (UPPER ISMAY) ,CUTLER	NAVAJO FEDERAL 42-9	09 039S 025E	U-52333	WATER SOURCE	43,037,3126300				U52333 Howlerk
NAUL NA	KIVA (UPPER ISMAY) ,ISMAY	KIVA FEDERAL 24-4	04 039S 025E		OIL WELL	43,037,3174500		83687U6890	099	USA-U52333
NAUL NA	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL (WIW) 4-1	04 039\$ 025E		WATER INJECTED	43,037,3111200		83687U6890	099	U52333
<b>MAUL</b> M	KIVA (UPPER ISMAY) JISMAY	NAVAJO FEDERAL (WIW) 43-5	04 039\$ 025E		WATER INJECTED	43,037,3131700		83687U6890	099	U 58728
NAUT N	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL 12-4	04 039\$ 025E		WATER INJECTED	43,037,3139500		83687U6890	099	U52333
N JUAN	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL 14-4	04 039S 025E		WATER INJECTED	43,037,3132100	••	83687U6890	099	U52333
NAUL P	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL 21-9	09 039S 025E		WATER INJECTED	43,037,3126700		83687U6890	099	U 52333
NAUL W	KIVA (UPPER ISMAY) JSMAY	NAVAJO FEDERAL 23-4	04 039S 025E		WATER INJECTED	43,037,3125900		<b>83687U</b> 6890	099	U 52333
MAUL I	KIVA (UPPER ISMAY) JISMAY	NAVAJO FEDERAL 4-1	04 039S 025E		OIL WELL	43,037,3111200		83687U6890	099	U52333
MAUL M	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL 4-2	04 039S 025E		OIL WELL	43,037,3116100		<b>63687U689</b> 0	099	u 52333
NAUL V	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL 4-4	04 039\$ 025E		OIL WELL	43,037,3117900		83687U6890	089	U52333
NAUL I	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL 42-5	05 039S 025E		OIL WELL	43,037,3126100		83687U6890	106	u54555 u58728
NAUL	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL 43-5	04 039\$ 025E	•	OIL WELL	43,037,3131700		83687U6890		-
NAUL	KIVA (UPPER ISMAY) ,ISMAY	NAVAJO FEDERAL 9-1	09 039S 025E		Off Well	43,037,3100100			099	U 58728
JUAN	KIVA (UPPER ISMAY) ,WINGATE	NAVAJO FEDERAL 42-9	09 039\$ 025E		WATER SOURCE	•		83687U6890	099	L 52333
					WATER SOURCE	43,037,3126300		83687U6890	099	11 52333 (To wellor Rig

### CHANGE OF OPERATOR STATE OF - UT

COUNTY	FIELD NAME	WELL NAME	STR	LSE#	WELLTYPE	APIWELL	COMM NO.	FED CNTRL	ST (	NTRL.
NAUL NAS	KIVA ,DESERT CREEK	NAVAJO FEDERAL 41-5	05 039S 025E	UTU57896	OIL WELL	43,037,3135800		UTU57895	108	il 57895
naul naz	LION MESA ,CANE CREEK	HATCH POINT FEDERAL 27- 1A	27 027\$ 021E	UTU20016	OIL WELL	43,037,3051800		UTU20016	028	112001L

Form 3160-5 (June 1990)

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	FO
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FORM APPROVED Budget Bureau No. 1004-0135

Expires March 31, 1993

5. Lease Designation and Serial No.

SUNDRY NOTICE	UTU56186	
Do not use this form for proposals to drill or to Use "APPLICATION FOR P	6. If Indian, Allottee or Tribe Name	
SUBMIT IN 1. Type of Well	7. If Unit or CA, Agreement Designation	
X Oil Well Gas V	Vell Other	
2. Name of Operator	, other	8. Well Name and No.
MERIT ENERGY COMPANY		HAVASU FEDERAL 22-19
3. Address and Telephone No (972) 701-8377		9. API Well No.
12222 MERIT DRIVE, DALLAS, TX 752		43,037,3127800
4. Location of Well (Footage, Sec., T., R., M., 1850' FNL - 1255' FWL, SENW	or Survey Description)	10. Field and Pool, or Exploratory Area KACHINA, ISMAY
19 038S 024E, SLM		11. County or Parish, State
		SAN JUAN, UT
12. CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOT	
TYPE OF SUBMISSION		PE OF ACTION
Notice of Intent	Abandonment	Change of Plans
	Recompletion	New Construction 170 @ 170 P.
Subsequent Report	Discourse Posts	New Construction DECEIVE
Suosequent Report	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off APR 2 8 1997
Final Abandonment Notice	Altering Casing	Conversion to Injection OF OIL, GAS & Mile
	X Other CHANGE OF	Dispose Water
	OPERATOR	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
13. Described Proposed or Completed Operations (Clea	urly state all pertinent details and give pertinent dat	es including estimated date of starting any proposed
work. If well is directionally drilled, give subsurfac	e locations and measured and true vertical depths	for all markers and zones pertinent to this work.)*
EFFECTIVE AS OF JANUARY	Y I. 1997 BURLINGTON RESOLU	RCES OIL & GAS COMPANY, THE PRIOR
OPERATOR OF RECORD, TRANSFERR	ED ALL RIGHT. TITLE AND INTER	REST IN THE HAVASU FEDERAL 22-19 WELL
TO MERIT PARTNERS, L.P. (AS TO	92.4%) AND MERIT ENERGY PA	RTNERS III, L.P. (AS TO 7.6%), C/O MERIT
ENERGY COMPANY, 12222 MERIT DR	UVE, DALLAS, TX 75251.  ON API	RIL 1, 1997, MERIT ENERGY COMPANY, THE
GENERAL PARTNER FOR MERIT PA	RTNERS, L.P. AND MERIT ENER	GY PARTNERS III, L.P., WILL TAKE OVER
PHYSICAL OPERATIONS OF SAID WE	LL ON BEHALF OF SAID LIMITED	PARTNERSHIPS AND IS CONSIDERED TO BE
THE OPERATOR OF SAID WELL AS OF	THAT DATE.	
MERIT ENERGY COMPANY I	C DECONICIDI E INIDED THE TO	ONC AND COMPRESSION OF THE LEAGE FOR
THE OPERATIONS CONDUCTED UPON	A THE LEASED LANDS BOND OF	RMS AND CONDITIONS OF THE LEASE FOR OVERAGE IN THE AMOUNT OF \$150,000 FOR
MERIT ENERGY COMPANY IS PROVI	3011, IN FAVOR OF THE BUREAU OF LAND	
MANAGEMENT, U.S. DEPARTMENT	OF THE INTERIOR.	John, in the on the bolders of Early
14. I hereby certify that the foregoing is true an		
Signed author	Title Manager, Regulatory Affairs	Date March 31, 1997
Martha Rogers		Date Major 11, 1777
(This space for Federal of Suppositions Palmer	Assistant Field Mar	nager.
Approved By	тіне Resource Manage	• •
Condition of Approval, If any:		

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

Merit Energy Company Well No. Havasu Federal 22-19 SENW Sec. 24, T. 38 S., R. 24 E. San Juan County, Utah

#### **CONDITIONS OF APPROVAL**

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Merit Energy Company is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased land.

Bond coverage for this well is provided by BLM Bond WY3011 (Principle - Merit Energy Company) as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable <u>until</u> the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

,			•
Division	of Oil,	Gas and	Mining

#### **OPERATOR CHANGE WORKSHEET**

Attach all documentation received by the division regarding this change. Initial each listed item when completed. Write N/A if item is not applicable.

Routing	10/
1-1FC	alla
2-GL/4	7-KAS
3-DPSZ()	8-SI /
4-VLD	9-FILE
5-IRB	

			L5-JRB
		inge of Operator (well sold)  Designation of Agent Operator Operator  Operator Name Change Only	
The o	pe	erator of the well(s) listed below has changed, effective: 4-1-97	:
TO:	(ņe	w operator) MERIT ENERGY COMPANY FROM: (old operator) (address) 12222 MERIT DR STE 1500 (address)	BURLINGTON RESOURCES 0&G 3300 N A ST BLDG 6
		DALLAS TX 75251	MIDLAND TX 79710-1810
		MARTHA ROGERS	MARALENE SPAWN
		Phone: (972) 701-8377	Phone: (915)688-6800
		Account no. <u>N4900 (4-30</u> -97)	Account no. N7670
WEL	L(	S) attach additional page if needed: *KACHINA UNIT (SECONDARY RECOV	ERY)
Name:	d	**SEE ATTACHED** API: 43-037-31778 Entity: S T	D
Name:	_	API: Entity: S T	R Lease:
Name:		API: Entity: S T	R Lease:
Name:	_	API: Entity: S T	R Lease:
Name:	_		R Lease:
Name:		API: Entity: S T	R Lease:
OPEI	RA	TOR CHANGE DOCUMENTATION	
1	1.	(r649-8-10) Sundry or other legal documentation has been received from the form). (Paid 4-3-97)	FORMER operator (attach to this
Lec :	2.	(r649-8-10) Sundry or other legal documentation has been received from form). (ke/ 4-3-97)	the NEW operator (Attach to this
Lec:	3.	The <b>Department of Commerce</b> has been contacted if the new operator ab wells in Utah. Is the company registered with the state? (yes/no)	ove is not currently operating any If yes, show company file number:
		FOR INDIAN AND FEDERAL WELLS ONLY. The BLM has been contante of BLM status in comments section of this form. BLM approval of I changes should ordinarily take place prior to the division's approval, and through 9 below.	Federal and Indian well operator
fec o	5.	Changes have been entered in the Oil and Gas Information System (3270)	for each well listed above.
Jec (	5.	Cardex file has been updated for each well listed above. (5-30-97)	
fee?	7.	Well file labels have been updated for each well listed above. (5-30-97)	
<u>-fe</u> t 8 Ú	3.	Changes have been included on the monthly "Operator, Address, and Account to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc.	
Lie 9	). ——	A folder has been set up for the Operator Change file, and a copy of th reference during routing and processing of the original documents.	is page has been placed there for
-34 3			

ENTITY REVIEW  1. (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes in (yes/no) If entity assignments were changed, attach copies of Form 6, Entity Action Form.
(yes/no) If entity assignments were changed, attach copies of Form 6, Entity Action Form.
<ol> <li>Trust Lands, Sovereign Lands, Tax Commission, etc., have been notified through normal procedures of changes.</li> </ol>
BOND VERIFICATION - (FEE WELLS ONLY)
1. (r649-3-1) The NEW operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new and former operator's bond files.
3. The <b>FORMER</b> operator has requested a release of liability from their bond (yes/no), as of today's If yes, division response was made to this request by letter dated
LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY
1. Copies of documents have been sent on to at Trust Lands for cha / involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by l dated19, of their responsibility to notify all interest owners of this change.
FILMING
1. All attachments to this form have been microfilmed. Today's date: 6 20 97
FILING
1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form, and the original attachments are now being filed in the Operator Change file.
COMMENTS
970430 Blm/aprv. 4-23-97.

## STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

	DIVISION OF OIL, GAS AND MI	NING	5. LEASE DESIGNATION AND SERIAL NUMBER: See attached
SUNDRY	NOTICES AND REPORTS	S ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill drill horizontal 1. TYPE OF WELL OIL WELL	8. WELL NAME and NUMBER:		
2. NAME OF OPERATOR:			See attached  9. API NUMBER:
Merit Energy Company 3. ADDRESS OF OPERATOR:			
12222 Merit Dr., Suite 'cit	y Dallas STATE TX ZIP	PHONE NUMBER: (972) 701-8377	10. FIELD AND POOL, OR WILDCAT: See attached
4. LOCATION OF WELL			
FOOTAGES AT SURFACE: See A	lteched		COUNTY: San Juan
QTR/QTR, SECTION, TOWNSHIP, RAI	NGE, MERIDIAN		STATE: UTAH
11. CHECK APPI	ROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
NOTICE OF INTENT	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION
(Submit in Duplicate)	ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start:	CASING REPAIR	NEW CONSTRUCTION	TEMPORARILY ABANDON
	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR
	CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	PLUG BACK	WATER DISPOSAL
Date of work completion:	CHANGE WELL STATUS	PRODUCTION (START/RESUME)	WATER SHUT-OFF
	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE	OTHER:
	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION	
Merit Energy Company ac of the wells on the attache Journey Operating, L.L.C. 1201 Louisiana, Suite 104	ea list.		es, etc.
Houston, TX. 77002 (713) 655-0595			
(713) 055-0595			
- 13:0	R		The same of the sa
Brian A. Baer, Preside	nt .		Lessa Catharana Wanning
bilati A. Daei, Fleside	iii.		con as this
			ENTRION OF CIL, CAS AND RINING
NAME (PLEASE PRINT) Arlene Va	lliquette	тітье Manager - Regul	atory Affairs
SIGNATURE <u>Alene</u>	, 4) allquette	DATE 9/29/0	0

(This space for State use only)

Form 3160-5 (June 1990)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED

Budget Bureau No.: 1004-0135

Expires: November 30, 2000

5. Lease Designation and Serial No.

UTU-20895

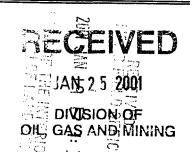
#### SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reentry to an abandoned well. Use Form 3160-3 (APD) for such proposals

γ.	2) for such proposais	
SUBMIT IN TRIPLICATE - Other inst	ructions on reverse side	7. If Unit or CA, Agreement Designation
1. Type of well		
Oil Gas X		
	uros Mall	
2. Name of Operator	eurce Well	8. Well Name and No.
Journey Operating, L.L.C.		Havasu Federal #41-24
3a. Address and Telephone No.	3b. Phone No. (include area code)	9. API Number
1201 Louisiana, Suite 1040, Houston, Tx 77002	713-655-0595	43-037-31279
Location of Well (Footage, Sec, T,R, or Survey Description)	110-030-0399	10. Field and Pool or Exploratory Area
1050' FNL & 500' FEL (NE NE)		Kachina; Ismay
Sec 24, T 38S, R 23E		11. County or Parish, State
	DICATE NATURE OF NOTICE, REPORT	San Juan County, UT
TYPE OF SUBMISSION		
THE OF GODINGOION	TYPE OF	ACTION
X Notice of Intent	Acidize Deepen	Production (Start/Resume) Water Shut-Off
X Notice of Intent		
Subsequent Devent	Alter Casing Facture Treat	Reclamation Well Integrity
Subsequent Report		
Final Abandonment Notice	Casing Repair New construction	Recomplete X Other
The residential lactice		Change of Operator
	Change Plans Plug and Abandon	Temporarily Abandon
42	Convert to Injection Plug Back	Water Disposal
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and	give pertinent dates, including estimated starting date of starting an	y proposed work and approximate duration thereof.
If the proposal is to deepen directionally or recomplete horizontally, give subsurface	location and measured and true vertical depths of all pertinent marke	ers and zone. Attach the Bond under which the work
will be preformed or provide the Bond No. on file with BLM/BIA. Required subseque	nt reports shall be filed within 30 days following completion of the inv	volved operations. If the operations result in a
multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed or	nce testing has been completed. Final Abandonment Notice shall be	a filed only after all requirements, including reclamation,
have been completed, and the operator has determined that the site is ready for final	I inspection.)	
Journey Operating, L.L.C. hereby accepts the operatorship of the	is well effective October 1, 2000. Journey Operatin	g, L.L.C. will be responsible under
the terms and conditions of the lease(s) for the operations cond	ucted on the leased lands or portions thereof. Journ	ney Operating, L.L.C. bond coverage
is provided under Bond No. RLB0002487.	BLM Bond # WY 3354- NortionW	ide
	THE SECTION OF THE SE	iac.
14 I hereby certify that the foregoing is true and correct		
Can D Ly		
Sanadi XIIAA NAA IIAA AA A	ritte: Sr. Regulatory Analyst	Date: 1/17/01
(This space for Federal or State office use)	Assistant Field Manager	
pproved by: Malliam Thumer	Title: Division of Possurage	[ //20 ///
Conditions of approval, if any:		Date: 1/22/0(
	CONDITIONS OF API	PROVAL ATTACHED
itle 18 US.C. Section 1001, makes it a crime for any person knowingly and willfully to mak	e any department or agency of the United State any file.	TOYAL ALIMUTED
tatements or representations as to any matter within its jurisdiction.		Irauquient

CC: 1306m ilaaloi

\*See Instructions on Reverse Side



Journey Operating, LLC Well No. Havasu Federal 41-24 NENE Sec. 24, T. 38 S., R. 23 E. Lease UTU20895 San Juan County, Utah

#### **CONDITIONS OF APPROVAL**

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Journey Operating, LLC is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by WY3354 (Principal - Journey Operating, LLC) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable <u>until</u> the provisions of 43 CFR 3106.7-2 continuing responsibility are met.



JAN 25 2001

#### **CHANGE OF OPERATOR**

from Merit Energy Company to Journey Operating, L.L.C.
Federal Lease No. UTU-56186
Kachina Field
San Juan County, Utah

#### Attachement to BLM Form 3160-5

Well Type	Well Name/Number	API Number	Location of Well
Injection Well	Arabian Federal #2	43-037-31282	NW SW (2180' FSL & 950' FWL) Sec. 19-38S-24E
Oil Well	Arabian Federal #3	43-037-31287	NE SW (1470' FSL & 1750' FWL) Sec. 19-38S-24E
Injection Well	Havasu Federal #11-19	43-037-31458	NW NW (940' FNL & 590' FWL) Sec. 19-38S-24E
Oil Well	Havasu Federal #12-19	43-037-31457	SW NW (1840' FNL & 410' FWL) Sec. 19-38S-24E
Oil Well	Havasu Federal #12-19A	43-037-31459	SW NW (2520' FNL & 200' FWL) Sec. 19-38S-24E
Oil Well	Havasu Federal #22-19	43-037-31278	SW NW (1850' FNL & 1255' FWL) Sec. 19-38S-24E

RECEIVED

JAN 25 2001

Journey Operating, LLC Well Nos. 2, 3, 11-19, 12-19, 12-19A and 22-19 Sec. 19, T. 38 S., R. 24 E. Lease UTU56186 San Juan County, Utah

#### **CONDITIONS OF APPROVAL**

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Journey Operating, LLC is considered to be the operator of the above wells and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for these wells is provided by WY3354 (Principal - Journey Operating, LLC) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable <u>until</u> the provisions of 43 CFR 3106.7-2 continuing responsibility are met.



JAN 25 2001

## CHANGE OF OPERATOR from Merit Energy Company to Journey Operating, L.L.C. San Juan County, Utah

#### Attachment to Utah Form 19

Well Type	Lease Serial No.	Field Name	Well Name/Number	API Number	Location of Well
Oil Well	UTU-40361	Bannock	Bannock Federal #21-33	43-037-31425	NE NW (685' FNL & 1520' FWL) Sec. 33-T38S-R24E
Injection Well	I-149-IND-9123	Ismay	Ismay Flodine Park R-124	43-037-16169	NE NE (660' FNL & 660' FEL) Sec. 24-T40S-R25E
Oil Well	14-20-603 <b>-</b> 2055-A	<sup>-</sup> Ismay	Ismay Flodine Park S-216	43-037-15546	SW NW (1820' FNL & 500' FWL) Sec. 16-T40S-R26E
Injection Well	14-20-603-2055-A	Ismay	Ismay Flodine Park T-316	43-037-16462	NE SW (1980 FSL & 1980' FWL) Sec. 16-T40S-R26E
Oil Well	14-20-603-2055-A	Ismay	Ismay Flodine Park S-416	43-037-15544	SW SW (1820' FNL & 500' FWL) Sec. 16-T40S-R26E
Oil Well	14-20-603-2055-A	Ismay	Ismay Flodine Park U-416	43-037-15545	SW SE (660' FSL & 1980' FEL) Sec. 16-T40S-R26E
injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park T-117	43-037-16456	NE NW (775 FNL & 1995' FWL) Sec. 17-T40S-R26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park S-217	43-037-16170	SW NW (1980' FNL & 660' FWL) Sec. 17-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park V-117	43-037-16188	NE NE (660' FNL & 660' FEL) Sec. 17-T40S-R26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park U-217	43-037-16180	SW NE (1980' FNL & 1820' FEL) Sec. 17-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park T-317	43-037-16463	NE SW (1980' FSL & 1980' FWL) Sec. 17-T40S-R26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park U-417	43-037-16185	SW SE (500' FSL & 1820' FEL) Sec. 17-T40S-R26E
Injection Well	I-149-IND-9123	Ismay	Ismay Flodine Park T-118	43-037-16457	NE NW (660' FNL & 1980' FWL) Sec. 18-T40S-R26E
Oil Well	I-149-IND-9123	Ismay	Ismay Flodine Park S-218	43-037-16171	SW NW (1820' FNL & 660' FWL) Sec. 18-T40S-R26E
Oil Well	I-149-IND-9123	Ismay	Ismay Flodine Park T-318	43-037-16464	NE SE (1980' FSL & 1980' FWL) Sec.18-T40S-R26E
Oil Well	I-149-IND-9123	Ismay	Ismay Flodine Park V-318	43-037-16467	NE SE (1980' FSL & 660' FEL) Sec. 18-T40S-R26E
Oil Well	I-149-IND-9123	Ismay	Ismay Flodine Park U-418	43-037-16186	SW SE (660' FSL & 1980' FEL) Sec. 18-T40S-R26E
injection Well	I-149-IND-9123	Ismay	Ismay Flodine Park T-119	43-037-16458	NE NW (660' FNL & 1980' FWL) Sec. 19-T40S-R26E
Water Source Well	I-149-IND-9123	Ismay	Ismay Flodine Park V-219	43-037-16519	SE NE (1980' FNL & 560' FEL) Sec. 19-T40S-R26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park V-120	43-037-16190	NE NE (660' FNL & 660' FEL) Sec. 20-T40S-R26E
Water Source Well	I-149-IND-9124	Ismay	Ismay Flodine Park V-220	43-037-20055	SE NE (1950' FNL & 1120' FEL) Sec. 20-T40S-R26E
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park S-121	43-037-31629	NW NW (500' FNL & 660' FWL) Sec. 21-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park T-121	43-037-16460	NE NW (610' FNL & 2050' FWL) Sec. 21-T40S-R26E
Water Source Well	I-149-IND-9124	Ismay	Ismay Flodine Park U-121	43-037-20056	NW NE (540' FNL & 1980' FEL) Sec. 21-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park V-121	43-037-16191	NE NE (660' FNL & 660' FEL) Sec. 21-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park U-421	43-037-11267	SW SE (660' FSL & 1980' FEL) Sec. 21-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park V-321	43-037-16194	NE SE (1980' FSL & 670' FEL) Sec. 21-T40S-R26E

## CHANGE OF OPERATOR from Merit Energy Company to Journey Operating, L.L.C. San Juan County, Utah

#### Attachment to Utah Form 19

Well Type	Lease Serial No.	Field Name	Well Name/Number	API Number	Location of Well
Oil Well	I-149-IND-9124	Ismay	Ismay Flodine Park S-222	43-037-16173	SW NW (2030' FNL & 820' FWL) Sec. 22-T40S-R26E
Injection Well	I-149-IND-9124	Ismay	Ismay Flodine Park T-322	43-037-16179	NE SW (1820' FSL & 1935' FWL) Sec. 22-T40S-26E
Oil Well	I-149-IND-9124	ismay	Ismay Flodine Park U-422	43-037-16187	SW SE (820' FSL & 2140' FEL) Sec. 22-T40S-R26E
Oil Well	NOG-9904-1324	Ismay	Ismay Flodine Park S-227	43-037-16231	SW NW (2140' FNL & 820' FWL) Sec. 27-T40S-R26E
Oil Well	NOG-9904-1324	Ismay	Ismay Flodine Park U-127	43-037-31648	NE NE (745' FNL & 595' FEL) Sec. 27-T40S-R26E
Oil Well	NOG-9904-1324	Ismay	Ismay Flodine Park U-227	43-037-16234	SW NE (2120' FNL & 1950' FEL) Sec. 27-T40S-R26E
Oil Well	14-20-603-2058-A	Ismay	Ismay Flodine Park U-234	43-037-16184	SW NE (1980' FNL & 2080' FEL) Sec. 34-T40S-R26E
Water Source Well	UTU-20894	Kachina	Wash Unit #2	43-037-31324	SE SE (470' FSL & 850' FEL) Sec. 13-T38S-R23E
Oil Well	UTU-20895	Kachina	Havasu Federal #41-24	43-037-31279	NE NE (1050' FNL & 500' FEL) Sec. 24-T38S-R23E
Injection Well S	UTU-20895	Kachina	Havasu Federal #42-24	43-037-31298	SE NE (1970' FNL & 461' FEL) Sec. 24-T38S-R23E
Injection Well	UTU-20895 UTU-56186	Kachina	Arabian Federal #2	43-037-31282	NW SW (2180' FSL & 950' FWL) Sec. 19-T38S-R24E
Oil Well	UTU-56186 UTU-56186	Kachina	Arabian Federal #3	43-037-31287	NE SW (1470' FSL & 1750' FWL) Sec. 19-T38S-R24E
	, UTU-56186	Kachina	Havasu Federal #11-19	43-037-31458	NW NW (940' FNL & 590' FWL) Sec. 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Havasu Federal #12-19	43-037-31457	SW NW (1840' FNL & 410' FWL) Sec. 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Havasu Federal #12-19A	43-037-31459	SW NW (2520' FNL & 200' FWL) Sec. 19-T38S-R24E
Oil Well	UTU-56186	Kachina	Havasu Federal #22-19	43-037-31278	SW NW (1850' FNL & 1255' FWL) Sec. 19-T38S-R24E
Injection Well	UTU-52333	Kiva	Navajo Federal #12-4	43-037-31395	SW NW (2260' FNL & 440' FWL) Sec. 4-T39S-R25E
Injection Well	UTU-52333	Kiva	Navajo Federal #14-4	43-037-31321	SW SW (1150' FSL & 1110' FWL) Sec. 4-T39S-R25E
Injection Well	UTU-52333	Kiva	Navajo Federal #23-4	43-037-31259	NE SW (1500' FSL & 2500' FWL) Sec. 4-T39S-R25E
Oil Well	UTU-52333	Kiva	Kiva Federal #24-4	43-037-31745	SE SW (1057' FSL & 1997' FWL) Sec. 4-T39S-R25E
Injection Well	UTU-52333	Kiva	Navajo Federal #4-1	43-037-31112	SE SW (370' FSL & 1940' FWL) Sec. 4-T39S-R25E
Oil Well	UTU-52333	Kiva	Navajo Federal #4-2	43-037-31161	SW SE (300' FSL & 2225' FEL) Sec. 4-T39S-R25E
Oil Well	UTU-52333	Kiva	Navajo Federal #4-4	43-037-31179	NW SW (1980' FSL & 660' FWL) Sec. 4-T39S-R25E
Oil Well	UTU-57895	Kiva	Navajo Federal #42-5	43-037-31261	SE NE (2130' FNL & 320' FEL) Sec. 5-T39S-R25E
Injection Well	UTU-58728	Kiva	Navajo Federal #43-5	43-037-31317	NE SE (1954' FSL & 627' FEL) Sec. 5-T39S-R25E
Oil Well	UTU-52333	Kiva	Navajo Federal #9-1	43-037-31001	NW NE (770' FNL & 2010' FEL) Sec. 9-T39S-R25E

•

## CHANGE OF OPERATOR from Merit Energy Company to Journey Operating, L.L.C. San Juan County, Utah

#### Attachment to Utah Form 19

Well Type	Lease Serial No.	Field Name	Well Name/Number	API Number	Location of Well
Injection Well	UTU-52333	Kiva	Navajo Federal #21-9	43-037-31267	NE NW (330' FNL & 2510' FWL) Sec. 9-T39S-R25E
Water Source Well	UTU-52333	Kiva	Navajo Federal #42-9	43-037-31263	SE NE (1850' FNL & 1140' FEL) Sec. 9-T39S-R25E

### **OPERATOR CHANGE WORKSHEET**

Enter date after each listed item is completed

ROUTING

KOUTING						
1. GLH	4-KAS					
2. CDW	5-770					
3. JLT	6-FILE					

<b>T</b> .	60	ARRIED CO. B. BY

#### X Change of Operator (Well Sold)

Designation of Agent

Operator Name Change (Only)

Merger

MERIT	: (Old Operator):	٦					
MERIT		•	<b>TO:</b> ( Ne	ew Operator):			
	ENERGY COMPANY	-		Y OPERATIN	GLLC		
	12222 MERIT DR. STE 1500			1201 LOUIS		040	
DALLA	S, TX 75251	_	HOUSTO	N, TX 77002	<del> </del>		
	-(972)-701-8377		Phone:	1-(713)-655-	0595		
Account	No. N4900		Account	No. N1435			
	CA No	<b>_</b> ) <b>.</b>	Unit:	KACHINA			
WELL	(S)				· · · · · · · · · · · · · · · · · · ·		
NAME		API NO.	ENTITY NO.	SEC. TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
HAVAS	U FEDERAL 41-24	43-037-31279	10654	24-38S-23E		ow	P
ARABI	AN FEDERAL # 3	43-037-31287	10654	19-38S-24E			P
HAVAS	U FEDERAL 12-19	43-037-31457	10654	19-38S-24E		ow	P
HAVAS	U FEDERAL 12-19A	43-037-31459	10654	19-38S-24E	FEDERAL	OW	P
HAVAS	U FEDERAL 22-19	43-037-31278	10654	19-38S-24E	FEDERAL	OW	P
					1		<u></u>
OPER	ATOR CHANGES DOCUMENTATION						
1. (R6-	19-8-10) Sundry or legal documentation was received	from the FORM	ER operato	or on:	10/23/2000	1	
2. (R6-	19-8-10) Sundry or legal documentation was received	from the <b>NEW</b> of	perator on:		01/25/2001	Ward and a second	
3. The	new company has been checked through the Departi	ment of Commer	ce, Division	ı of Corporati	ions Databas	e on:	02/06/200
4. Is th	e new operator registered in the State of Utah:	YES	_Business l	Number:	4 <u>822566-016</u>	<u>5</u> 1	
5. If <b>N</b>	O, the operator was contacted contacted on:	N/A	_				

7. <b>Federal and Indian Units:</b> The BLM or BIA has approved the successor of unit operator for wells listed on:  N/A	
8. Federal and Indian Communization Agreements ("CA"): The BLM or the BIA has approved the op change for all wells listed involved in a CA on:  N/A	erator
9. Underground Injection Control ("UIC") Prog: The Division has approved UIC Form 5, Transfer of Authority to for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on:  N/A	o Inject,
DATA ENTRY:	
1. Changes entered in the Oil and Gas Database on:  02/06/2001	
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 02/06/2001	
3. Bond information entered in RBDMS on:  N/A	
4. Fee wells attached to bond in RBDMS on:  N/A	
STATE BOND VERIFICATION:	
1. State well(s) covered by Bond No.: N/A	
FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:  1. (R649-3-1) The NEW operator of any fee well(s) listed has furnished a bond No:	
2. The <b>FORMER</b> operator has requested a release of liability from their bond on:  The Division sent response by letter on:  N/A  N/A	
3. (R649-2-10) The <b>FORMER</b> operator of the Fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on:  N/A	
FILMING:  1. All attachments to this form have been MICROFILMED on: 2 - 21 - 01	
FILING:  1. ORIGINALS/COPIES of all attachments pertaining to each individual well have been filled in each well file on:	
COMMENTS:	
COMMENTS.	

.. A.

ROUTING						
1. DJJ						
2 CDW	٦					

### X Change of Operator (Well Sold)

### Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:				6/9/2006				
FROM: (Old Operator):			TO: ( New Operator):					
N1435-Journey Operating, LLC			N0265-Citation Oil & Gas Corp					
201 Louisiana, Suite 1040				8223 Willow Place South				
Houston, TX 77002			Houston, TX 77070					
Phone: 1 (713) 655-0595			Phone: 1 (281) 517-7800					
CA N	CA No.			Unit:		KACHINA		
WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
HAVASU-FEDERAL 22-19	19	12808	240E	4303731278V		Federal	OW	P
HAVASU-FEDERAL 41-24	24			4303731279		Federal	ow	P
ARABIAN FED 2	19			4303731282		Federal	WI	A
ARABIAN FEDERAL 3	19			4303731287		Federal	OW	P
HAVASU FED 42-24	24		230E	4303731298		Federal	WI	A
WASH UNIT 2	13		230E	4303731324		Federal	WS	A
HAVASU FEDERAL 12-19	19			4303731457	10654	Federal	OW	S
HAVASU FED 11-19	19		240E	4303731458	10654	Federal	WI	A
HAVASU FEDERAL 12-19A	19	380S	240E	4303731459	10654	Federal	OW	P
<ol> <li>(R649-8-10) Sundry or legal documentation</li> <li>(R649-8-10) Sundry or legal documentation</li> <li>The new company was checked on the Depa</li> <li>Is the new operator registered in the State of</li> <li>If NO, the operator was contacted contacted</li> <li>(R649-9-2)Waste Management Plan has been</li> <li>Inspections of LA PA state/fee well sites con</li> <li>Reports current for Production/Disposition</li> <li>Federal and Indian Lease Wells:</li> <li>or operator change for all wells listed on Feen</li> <li>Federal and Indian Units:</li> <li>The BLM or BIA has approved the success</li> <li>Federal and Indian Communization</li> </ol>	was received to the second of	ed on: on: on: M and o Indian unit ope	YES  or the leases of the leas	ENEW operator  e, Division of Co  Business Numb  IN PLACE  n/a  ok  BIA has appro- on:  or wells listed on:  CCA"):	on: orporations oer: oved the m BLM	793304-01	e on:  43  ame change 6 BIA	<b>3</b> ,
The BLM or BIA has approved the operat			listed v	within a CA on:	HIIOT	n/a		hauitu ta
10. Underground Injection Control	("UIC	;") saisat fo		ivision has appro			6/30/200	
Inject, for the enhanced/secondary recovery	/ unit/pr	ojeci id	or the w	ater disposar we	n(s) nsieu c	)11.	0/30/200	<u>o_</u>
DATA ENTRY:				7/21/2006				
<ol> <li>Changes entered in the Oil and Gas Databe</li> <li>Changes have been entered on the Monthly</li> <li>Bond information entered in RBDMS on:</li> <li>Fee/State wells attached to bond in RBDMS</li> <li>Injection Projects to new operator in RBDM</li> <li>BOND VERIFICATION:</li> <li>Federal well(s) covered by Bond Number:</li> </ol>	Opera S on:	tor Ch	ange Sj	n/a n/a 7/31/2006 104061650	-	7/31/200	<u>06</u>	
2. Indian well(s) covered by Bond Number:				104061656	_			

STATE OF UTAH	FORM 9		
DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached List		
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7, UNIT or CA AGREEMENT NAME: See Attached List		
1, TYPE OF WELL OIL WELL GAS WELL OTHER	8. WELL NAME and NUMBER: See Attached List		
2. NAME OF OPERATOR:	9. API NUMBER: See Attach		
Journey Operating, L.L.C. N 1435  3. ADDRESS OF OPERATOR:  PHONE NUMBER:	10. FIELD AND POOL, OR WILDCAT:		
1201 Louisiana, Suite 1040 Houston STATE TX ZIP 77002 (713) 655-0595	See Attached List		
4. LOCATION OF WELL FOOTAGES AT SURFACE: See Attached List	соинту: San Juan		
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:	STATE: UTAH		
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA		
TYPE OF SUBMISSION TYPE OF ACTION			
NOTICE OF INTENT (Submit in Duplicate)  ACIDIZE  DEEPEN  FRACTURE TREAT	REPERFORATE CURRENT FORMATION SIDETRACK TO REPAIR WELL		
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON		
CHANGE TO PREVIOUS PLANS  OPERATOR CHANGE	TUBING REPAIR		
CHANGE TUBING  SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:  CHANGE WELL NAME  CHANGE WELL STATUS  PRODUCTION (START/RESUME)  COMMINGLE PRODUCING FORMATIONS  RECLAMATION OF WELL SITE  CONVERT WELL TYPE  RECOMPLETE - DIFFERENT FORMATION	VENT OR FLARE  WATER DISPOSAL  WATER SHUT-OFF  OTHER:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volun			
Journey Operating, L.L.C. advises, effective June 9, 2006, Citation Oil & Gas Corp. will be attached list.			
Citation Oil & Gas Corp. (N0265) 8223 Willow Place South Houston, TX 77070 (281) 517-7800 Bond No.: 104325628 - \$120,000  By: Robert T. Kennedy  Robert T. Kennedy	1650 1656		
Sr. Vice President Land  NAME (PLEASE PRINT)  Brian A. Baer  TITLE  President  DATE  6/9/2006			

(This space for State use only) APPROVED 7 31 3006

JUN 2 3 2006

RECEIVED

DIV. OF OIL, GAS & MINING

Form 3160-5 (February 2005)

### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OM B No. 1004-0137
Expires: March 31, 2007

## SUNDRY NOTICES AND REPORTS ON WELLS

	UTU-56186					
6	If Indian	Allottee or Tribe Name				

5. Lease Serial No.

Do not use this form for proposals abandoned well. Use Form 3160-3	6. If Indian, Allottee or Tribe Name		
SUBMIT IN TRIPLICATE- Other inst	7. If Unit or CA/Agreement, Name and/or No.		
1. Type of Well Gas Well Other	8. Well Name and No.		
2. Name of Operator Citation Oil & Gas Corp.		See Attached List  9. API Well No.	
3a Address 8223 Willow Place South, Houston, TX 77070	3b. Phone No. (include area code) 281-517-7800	See Attached List  10. Field and Pool, or Exploratory Area	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)		Kachina; Ismay  11. County or Parish, State	
See Attached List		San Juan Co., UT	
12. CHECK APPROPRIATE BOX(ES) TO	INDICATE NATURE OF NOTICE,	REPORT, OR OTHER DATA	
TYPE OF SUBMISSION	TYPE OF ACTION	X21 - 22 - 22 - 22 - 22 - 22 - 22 - 22 -	
Acidize  ☐ Acidize ☐ Alter Casing ☐ Casing Repair ☐ Change Plans	Deepen Production (S Fracture Treat Reclamation New Construction Plug and Abandon Temporarily	Well Integrity Other Change of Operator Abandon	
Final Abandonment Notice Convert to Injection	Plug Back Water Disposa	al	
13. Describe Proposed or Completed Operation (clearly state all per If the proposal is to deepen directionally or recomplete horizonta Attach the Bond under which the work will be performed or profollowing completion of the involved operations. If the operation testing has been completed. Final Abandonment Notices must be determined that the site is ready for final inspection.)  Effective June 9, 2006, Citation Oil & Gas Corp. will the Citation Oil & Gas Corp. hereby accepts the operator the terms and conditions of the lease(s) for the operation coverage is provided under Bond No. 104061650 MTB.	ally, give subsurface locations and measured and wide the Bond No. on file with BLM/BIA. Requirements in a multiple completion or recompletion or filed only after all requirements, including reclarate over as operator of the above captione ship of the above captioned lease(s). Citations conducted on the leased lands or portion	true vertical depths of all pertinent markers and zones, three subsequent reports must be filed within 30 days in in a new interval, a Form 3160-4 must be filed once amation, have been completed, and the operator has d lease(s) from Journey Operating, L.L.C. on Oil & Gas Corp. will be responsible under	
		DEOENTED	
		RECEIVED	
		JUL 1 0 2006	
14. I hereby certify that the foregoing is true and correct		DIV. OF OIL, GAS & MANING	
Name (Printed/Typed)  Robert T. Kennedy	Title Sr. Vice President I	Cand H	
Signature Walnut I	Date	06/09/2006	
	R FEDERAL OR STATE OFFICE	E USE	

Title Division of Resource S Date

7/4/06

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

CC UDOGM Flutco

CONDITIONS OF APPROVAL ATTACHED

## **CHANGE OF OPERATOR**

# From Journey Operating, L.L.C. To Citation Oil & Gas Corp. Federal Lease No.: UTU-56186 Kachina Unit San Juan County, UT

Well Type	Lease Serial No.	Field Name	Well Name/Number	API Number	Location of Well
Injection Well Oil Well Injection Well Oil Well Oil Well Oil Well	UTU-56186 UTU-56186 UTU-56186 UTU-56186 UTU-56186 UTU-56186	Kachina Kachina Kachina Kachina Kachina Kachina	Arabian Federal #2 Arabian Federal #3 Havasu Federal #11-19 Havasu Federal #12-19 Havasu Federal #12-19A Havasu Federal #22-19	43-037-31282 43-037-31287 43-037-31458 43-037-31457 43-037-31459 43-037-31278	NW SW (2180' FSL & 950' FWL) Sec 19-T38S-R24E NE SW (1470' FSL & 1750' FWL) Sec 19-T38S-R24E NW NW (940' FNL & 590' FWL) Sec 19-T38S-R24E SW NW (1840' FNL & 410' FWL) Sec 19-T38S-R24E SW NW (2520' FNL & 200' FWL) Sec 19-T38S-R24E SE NW (1850' FNL & 1255' FWL) Sec 19-T38S-R24E

Citation Oil and Gas Corporation All Wells on Lease Section 19, T38S, R24E Lease UTU56186 Grand County, Utah

## CONDITIONS OF ACCEPTANCE

Acceptance of these applications does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Citation Oil and Gas Corporation is considered to be the operator of the above wells effective June 9, 2006, and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for these wells is provided by MTB000053 (Principal – Citation Oil and Gas Corporation) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable <u>until</u> the provisions of 43CFR 3106.7-2 continuing responsibility are met.



## RICHARDSON OPERATING COMPANY

4725 S. Monaco Street, Suite 200 Denver, Colorado 80237 (303) 830-8000 Fax (303) 830-8009

> RECEIVED AUG 0 2 2013

July 29, 2013

DIV. OF OIL, GAS & MINING

Attn: Zeke Clements Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 Box 145801 Salt Lake City, Utah 84114-5801

Re: Sundry Notices and Reports on Wells - Change of Operator and Transfers of Authority to Inject

#### Dear Zeke:

Enclosed for approval by the Utah Divisio of Oil, Gas and Mining, please find two originally executed Sundry Notices and Reports on Wells on Form 9, for the following 18 leases and wells (API # included):

Lease #	Well Name	API Well No.
UTU-20894	Wash Unit 2	43-037-31324
UTU-20895	Havasu-Federal 41-24	43-037-31279
UTU-20895	Havasu-Federal 42-24	43-037-31298
UTU-40361	Bannock -Fed 21-33	43-037-31425
UTU-52333	24-4 Kiva Federal	43-037-31745
UTU-52333	Navajo Federal 12-4	43-037-31395
UTU-52333	Navajo Federal 14-4	43-037-31321
UTU-52333	Navajo Federal 21-9	43-037-31267
UTU-52333	Navajo Federal 4-1	43-037-31112
UTU-52333	Navajo Federal 4-2	43-037-31161
UTU-52333	Navajo Federal 42-9	43-037-31263
UTU-52333	Navajo Federal 4-4	43-037-31179
UTU-52333	Navajo Federal 9-1	43-037-31001
UTU-56185	Arabian Federal 3	43-037-31287
UTU-56186	Havasu-Federal 11-19	43-037-31458
UTU-56186	Havasu-Federal 22-19	43-037-31278
UTU-58728	Navajo Federal 42-5	43-037-31261
UTU-58728	Navajo Federal 43-5	43-037-31317

**APPROVED** 

AUG 1 9 2013

DIV. OIL GAS & MINING BY: Rachel Medina

Also enclosed for the approval by the Utah Division of Oil, Gas and Mining, please find one originally executed Transfer of Authority to Inject on Form UIC Form 5 for the following seven wells:

Lease #	Well Name	API Well No.
UTU-20895	Havasu-Federal 42-24	43-037-31298
UTU-52333	Navajo Federal 12-4	43-037-31395 <
UTU-52333	Navajo Federal 14-4	43-037-31321
UTU-52333	Navajo Federal 21-9	43-037-31267
UTU-52333	Navajo Federal 4-1	43-037-31112
UTU-56186	Havasu-Federal 11-19	43-037-31458
UTU-58728	Navajo Federal 43-5	43-037-31317

Please return the approved documents for each well to:

Richardson Operating Company 4725 S. Monaco Street, Suite 200, Denver, Colorado 80237.

If you have any questions, please do not hesitate to contact me at the number above or via email at land@richardsonoil.com.

Sincerely,

Carl Sathop

Ann Barthrop

Senior Land Analyst

**Enclosures** 

AUG 0 2 2013
Div. of Oil, Gas & Mini

## Division of Oil, Gas and Mining

# OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING	)Į	RC	R	
CDW	(		Г	

X - Change of Operator (Well Sold)	-		Operator N	lame Char			
The operator of the well(s) listed below has char			4/1/2013				
FROM: (Old Operator):			TO: ( New C	perator):			
N0265-Citation Oil & Gas Corp	N2400-Richar	-	ting Co.				
P O BOX 690688			4725 S Monac	-	_		
Houston, TX. 77269			Denver, CO. 8				
,							
Phone: 1 (281) 891-1000			Phone: 1 (303	)830-8000			
CA No.	ı		Unit:	Kachina			
WELL NAME	SEC	TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List							
OPERATOR CHANGES DOCUMENT Enter date after each listed item is completed  1. (R649-8-10) Sundry or legal documentation was 2. (R649-8-10) Sundry or legal documentation was 3. The new company was checked on the Depart 4a. Is the new operator registered in the State of Companies and the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies and Companies are supported by the State of Companies and Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies are supported by the State of Companies and Companies and Companies are supported by the State of Companies and Compani	as rece as rece ment Utah: eceive	eived from the eived from the of Commerce d on:	e NEW operato	r on: C <mark>orporation</mark>	8/2/2013 8/2/2013 s Database on: 8776630-0143		8/26/2013
6. Federal and Indian Lease Wells: The BI	LM an	d or the BIA	has approved th	e merger, na	ame change,		
or operator change for all wells listed on Feder	al or I	ndian leases	on:	BLM	Not Yet	BIA	N/A
7. Federal and Indian Units:							
The BLM or BIA has approved the successor	r of ur	nit operator fo	or wells listed or	1:	Not Yet		
8. Federal and Indian Communization Ag							
The BLM or BIA has approved the operator					Not Yet		
9. Underground Injection Control ("UIC"				Form 5 Tra		ity to	
Inject, for the enhanced/secondary recovery un						8/7/2013	•
DATA ENTRY:	iii pi o	ject for the w	ater disposar w	ch(s) hacca (	JII.	0///2013	•
	oni		8/26/2013				
<ol> <li>Changes entered in the Oil and Gas Database</li> <li>Changes have been entered on the Monthly O</li> </ol>		or Changa Si		<del>.</del>	8/26/2013		
<ul><li>2. Changes have been entered on the Monthly O</li><li>3. Bond information entered in RBDMS on:</li></ul>	рстан	or Change 5	8/26/2013	•	0/20/2013	•	
4. Fee/State wells attached to bond in RBDMS on	٠.		N/A	-			
5. Injection Projects to new operator in RBDMS			8/26/2013	-			
6. Receipt of Acceptance of Drilling Procedures		D/New on	0,20,2015	– N/A			
BOND VERIFICATION:	101 711	B/1(C)/ OII.			-		
			RLB0002500				
1. Federal well(s) covered by Bond Number:			N/A	<u>_</u>			
<ul><li>2. Indian well(s) covered by Bond Number:</li><li>3a. (R649-3-1) The NEW operator of any state/fe</li></ul>	aa ayal	l(a) listed cov		_ Jumber	N/A		
, ,		` '	•	N/A	11/71	•	
3b. The <b>FORMER</b> operator has requested a releas	se or n	aomiy irom i	neir bond on:	N/A			
LEASE INTEREST OWNER NOTIFIC	CATI	ON:			-		
4. (R649-2-10) The <b>NEW</b> operator of the fee wells			d and informed	by a letter fr	om the Division		
of their responsibility to notify all interest owner				N/A			
COMMENTS:							

## Citation Oil & Gas Corp (N0265) to Richardson Operating Co. (N2400) Effective 1-April-2013

						Mineral			
					Utah	Lease			
Well Name	Sec.	Township	Range	API No.	Entity No.	Type	Well Type	Well Status	Unit Name
HAVASU-FEDERAL 22-19	19	380S	240E	4303731278	10654	Federal	Oil Well	Producing	KACHINA
HAVASU-FEDERAL 41-24	24	380S	230E	4303731279	10654	Federal	Oil Well	Producing	KACHINA
ARABIAN FEDERAL 3	19	380S	240E	4303731287	10654	Federal	Oil Well	Producing	KACHINA
HAVASU FED 42-24	24	380S	230E	4303731298	10654	Federal	Water Injection	Active	KACHINA
WASH UNIT 2	13	380S	230E	4303731324	9975	Federal	Water Source	Active	KACHINA
HAVASH FED 11-19	19	3805	240F	4303731458	10654	Federal	Water Injection	Active	KACHINA

## RECEIVED

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AUG 0 2 2013

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:

Div. of Oil, G	Se Mining   Federal UTU-56186					
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:					
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter proposals.	olugged wells, or to 7. UNIT or CA AGREEMENT NAME:  NA					
1. TYPE OF WELL OIL WELL GAS WELL OTHER Change of Operator	8. WELL NAME and NUMBER: HAVASU-FEDERAL 22-19					
2. NAME OF OPERATOR:  Dishordeen Operating Company	9. API NUMBER: 037-31278					
Richardson Operating Company  3. Address of Operator:  PHONE N						
J. ADDICESS OF OF ENATION.	830-8000 KACHINA					
4. LOCATION OF WELL	GAN 114AN					
FOOTAGES AT SURFACE: 1850 N 1255 W	COUNTY: SAN JUAN					
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 19 38S 24E	STATE: UTAH					
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NO	TICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION TYPE OF	ACTION					
NOTICE OF INTENT	REPERFORATE CURRENT FORMATION					
(Submit in Duplicate)  ALTER CASING  FRACTURE TREAT	SIDETRACK TO REPAIR WELL					
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON					
CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TUBING REPAIR					
CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE					
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK (Submit Original Form Only)	WATER DISPOSAL					
CHANGE WELL STATUS PRODUCTION (START	(RESUME) WATER SHUT-OFF					
Date of work completion: COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WI	ELL SITE OTHER:					
CONVERT WELL TYPE RECOMPLETE - DIFFE	RENT FORMATION					
DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  Citation Oil & Gas Corp. has sold the captioned well to Richardson Operating Company and requests that they be named as Operator of Record effective 4/1/2013  Please release this well from coverage under Citation Oil & Gas Corp.'s Utah Statewide Bond # 104325628.  On behalf of Citation Oil & Gas Corp. I hereby certify that the foregoing is true and correct:  Sharon Ward Permitting Manager:  Date: 4/1/2013						
By execution of this document, Richardson Operating Company requests the Second for the above captioned well and accepts responsibility for this well un favor of the United States Department of the Interior, Bureau of Land Manager On behalf of Richardson Operating Company, I hereby certify that the foregoing is true NAME (PLEASE PRINT) David B. Richardson, Jr.	der it's Statewide Oil and Gas Lease Bond in ment Bond # RLB0002500.					
1 1 2 1 1	7- 20 2012					
SIGNATURE DATE	7-29-2013					



## RICHARDSON OPERATING COMPANY

4725 S. Monaco Street, Suite 200 Denver, Colorado 80237 (303) 830-8000 Fax (303) 830-8009

> RECEIVED AUG 0 2 2013

July 29, 2013

DIV. OF OIL, GAS & MINING

Attn: Zeke Clements Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 Box 145801 Salt Lake City, Utah 84114-5801

Re: Sundry Notices and Reports on Wells - Change of Operator and Transfers of Authority to Inject

#### Dear Zeke:

Enclosed for approval by the Utah Divisio of Oil, Gas and Mining, please find two originally executed Sundry Notices and Reports on Wells on Form 9, for the following 18 leases and wells (API # included):

Lease #	Well Name	API Well No.
UTU-20894	Wash Unit 2	43-037-31324
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UTU-52333	24-4 Kiva Federal	43-037-31745
UTU-52333	Navajo Federal 12-4	43-037-31395
UTU-52333	Navajo Federal 14-4	43-037-31321
UTU-52333	Navajo Federal 21-9	43-037-31267
UTU-52333	Navajo Federal 4-1	43-037-31112
UTU-52333	Navajo Federal 4-2	43-037-31161
UTU-52333	Navajo Federal 42-9	43-037-31263
UTU-52333	Navajo Federal 4-4	43-037-31179
UTU-52333	Navajo Federal 9-1	43-037-31001
UTU-56185	Arabian Federal 3	43-037-31287
UTU-56186	Havasu-Federal 11-19	43-037-31458
UTU-56186	Havasu-Federal 22-19	43-037-31278
UTU-58728	Navajo Federal 42-5	43-037-31261
UTU-58728	Navajo Federal 43-5	43-037-31317

**APPROVED** 

AUG 1 9 2013

DIV. OIL GAS & MINING BY: Rachel Medina

Also enclosed for the approval by the Utah Division of Oil, Gas and Mining, please find one originally executed Transfer of Authority to Inject on Form UIC Form 5 for the following seven wells:

<u>Lease #</u>	Well Name	API Well No.
UTU-20895	Havasu-Federal 42-24	43-037-31298
UTU-52333	Navajo Federal 12-4	43-037-31395
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UTU-52333	Navajo Federal 4-1	43-037-31112
UTU-56186	Havasu-Federal 11-19	43-037-31458
UTU-58728	Navajo Federal 43-5	43-037-31317

Please return the approved documents for each well to:

Richardson Operating Company 4725 S. Monaco Street, Suite 200, Denver, Colorado 80237.

If you have any questions, please do not hesitate to contact me at the number above or via email at land@richardsonoil.com.

Sincerely,

Carl Sathop

Ann Barthrop

Senior Land Analyst

**Enclosures** 

AUG 0 2 2013
Div. of Oil, Gas & Mini

## Division of Oil, Gas and Mining

# OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING	
CDW	

X - Change of Operator (Well Sold)	Operator Name Change/Merger									
The operator of the well(s) listed below has char	4/1/2013									
FROM: (Old Operator):	TO: ( New C	perator):								
N0265-Citation Oil & Gas Corp			N2400-Richar	-	ting Co.					
P O BOX 690688			4725 S Monac	-	_					
Houston, TX. 77269			Denver, CO. 8							
Phone: 1 (281) 891-1000	Phone: 1 (303)830-8000									
CA No.			Unit:							
WELL NAME	SEC	TWN RNO	G API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS			
See Attached List										
OPERATOR CHANGES DOCUMENT Enter date after each listed item is completed  1. (R649-8-10) Sundry or legal documentation was 2. (R649-8-10) Sundry or legal documentation was 3. The new company was checked on the Depart 4a. Is the new operator registered in the State of Company was checked on the Depart 5a. (R649-9-2) Waste Management Plan has been recompany was checked on the Depart 5b. Inspections of LA PA state/fee well sites comp 5c. Reports current for Production/Disposition & Section 1.	as rece ment Utah: eceive dete or	eived from the cived from the of Commerc don:	e NEW operato e, Division of C Business Num N/A N/A 8/19/2013	r on: Corporation Lber: — —	8776630-0143	-	8/26/2013			
6. Federal and Indian Lease Wells: The BI			= '							
or operator change for all wells listed on Feder	al or I	ndian leases	on:	BLM	_ Not Yet	BIA	N/A			
7. Federal and Indian Units:										
The BLM or BIA has approved the successor	r of un	it operator fo	or wells listed or	1:	Not Yet	-				
8. Federal and Indian Communization Ag	reem	ents ("CA"	<b>'</b> ):							
The BLM or BIA has approved the operator					Not Yet					
				Form 5 Tra	nsfer of Author	ity to				
9. Underground Injection Control ("UIC") Division has approved UIC Form 5 Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on:  8/7/2013										
DATA ENTRY:	iio pro	, <b>00</b> 0 101 tate 11	ater disposar ***	on(b) noted (		0, 1, 2010	-			
1. Changes entered in the Oil and Gas Database	oni		8/26/2013							
2. Changes have been entered on the <b>Monthly O</b>		or Change Si		<del>.</del>	8/26/2013					
3. Bond information entered in RBDMS on:	perace	n Change of	8/26/2013	•	0/20/2013	•				
4. Fee/State wells attached to bond in RBDMS or	۱.		N/A	<del>-</del>						
5. Injection Projects to new operator in RBDMS			8/26/2013							
6. Receipt of Acceptance of Drilling Procedures in		D/New on:		– N/A						
BOND VERIFICATION:					-					
1 7 1 1 11() 11 7 137 1			RLB0002500	)						
and the second s			N/A	<u>'-</u>						
	امید مد	(s) listed cov		_ Jumber	N/A					
•		• •	•	N/A	14/11	•				
3b. The <b>FORMER</b> operator has requested a release	oc or ii	aomiy nom t	aion bond on.	4N/FX						
LEASE INTEREST OWNER NOTIFIC	CATI	ON:			_					
4. (R649-2-10) The <b>NEW</b> operator of the fee wells			d and informed	by a letter fr	om the Division					
of their responsibility to notify all interest owne		N/A								
COMMENTS:										

## Citation Oil & Gas Corp (N0265) to Richardson Operating Co. (N2400) Effective 1-April-2013

					Utah	Lease			
Well Name	Sec.	Township	Range	API No.	Entity No.	Type	Well Type	Well Status	Unit Name
HAVASU-FEDERAL 22-19	19	380S	240E	4303731278	10654	Federal	Oil Well	Producing	KACHINA
HAVASU-FEDERAL 41-24	24	380S	230E	4303731279	10654	Federal	Oil Well	Producing	KACHINA
ARABIAN FEDERAL 3	19	380S	240E	4303731287	10654	Federal	Oil Well	Producing	KACHINA
HAVASU FED 42-24	24	380S	230E	4303731298	10654	Federal	Water Injection	Active	KACHINA
WASH UNIT 2	13	380S	230E	4303731324	9975	Federal	Water Source	Active	KACHINA
HAVASH FED 11-19	19	3805	240F	4303731458	10654	Federal	Water Injection	Active	KACHINA

## RECEIVED

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AUG 0 2 2013

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:

Div. of Oil, Gas & Mining	Federal UTU-56186							
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A							
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7. UNIT OF CA AGREEMENT NAME:							
1. TYPE OF WELL OIL WELL GAS WELL OTHER Change of Operator	8. WELL NAME and NUMBER: HAVASU-FEDERAL 22-19							
2. NAME OF OPERATOR:	9. API NUMBER: 037-31278							
Richardson Operating Company  3. ADDRESS OF OPERATOR:  TPHONE NUMBER:	10. FIELD AND POOL, OR WILDCAT:							
3. ADDRESS OF OPERATOR: 4725 S Monaco St. Suite 200 CITY Denver  STATE CO ZIP 80237 PHONE NUMBER: (303) 830-8000	KACHINA							
4. LOCATION OF WELL								
FOOTAGES AT SURFACE: 1850 N 1255 W	COUNTY: SAN JUAN							
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 19 38S 24E	STATE: UTAH							
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA							
TYPE OF SUBMISSION TYPE OF ACTION								
NOTICE OF INTENT	REPERFORATE CURRENT FORMATION							
(Submit in Duplicate)  ALTER CASING  FRACTURE TREAT	SIDETRACK TO REPAIR WELL							
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON							
CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TUBING REPAIR							
CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE							
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK	WATER DISPOSAL							
(Submit Original Form Only)  CHANGE WELL STATUS  PRODUCTION (START/RESUME)	WATER SHUT-OFF							
Date of work completion:  COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE	OTHER:							
CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION								
Citation Oil & Gas Corp. has sold the captioned well to Richardson Operating Company and requests that they be named as Operator of Record effective 4/1/2013  Please release this well from coverage under Citation Oil & Gas Corp. 's Utah Statewide Bond # 104325628.  On behalf of Citation Oil & Gas Corp. I hereby certify that the foregoing is true and correct:  Sharon Ward Permitting Manager:  Date: 4/1/2013  By execution of this document, Richardson Operating Company requests the State of Utah to approve them as Operator of Record for the above captioned well and accepts responsibility for this well under it's Statewide Oil and Gas Lease Bond in								
favor of the United States Department of the Interior, Bureau of Land Management Bond #  On behalf of Richardson Operating Company, I hereby certify that the foregoing is true and correct:	President							
NAME (PLEASE PRINT) DAVID B. RICHARDSON, Jr. TITLE								
SIGNATURE DATE DATE	7-29-2013							

Form 3160-5 (March 2012)

## **UNITED STATES** DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

**SUNDRY NOTICES AND REPORTS ON WELLS** 

Do not use this form for proposals to drill or to re-enter an

FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2014

5. Lease Serial No.

UTU-56186

6. If Indian, Allottee or Tribe Name

abandoned well.	Use Form 3160-3 (A	PD) for suc	ch pro	posals.					
SUBMIT IN TRIPLICATE – Other instructions on page 2.					7. If Unit of CA/Agreement, Name and/or No.				
1. Type of Well					N/A				
Oil Well Gas W	rell	A				8. Well Name and N N/A Hava	lo. . 511	- FEDERAL 24-19	
2. Name of Operator Richardson Operating Company						9. API Well No. 43 – 037			
3a. Address 4725 S. Monaco St. Ste. 200 Denver, CO 80237	,	3b. Phone No.	(include	area code)	)	10. Field and Pool or			
4725 S. Monaco St. Ste. 200 Denver, CO 80257		(303)830-800	0			Kachina Field			
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) Lat: 37.474631 Long: -109.331146 SENW SEC 19 T 385 R24E						11. County or Parish, State Garfield County, Utah			
12. CHEC	K THE APPROPRIATE BO	X(ES) TO IND	ICATE N	NATURE C	OF NOTIC	CE, REPORT OR OT	HER I	DATA	
TYPE OF SUBMISSION				ТҮРЕ	OF ACT	ION	ON		
Notice of Intent	Acidize	Deep	en		Prod	uction (Start/Resume)		Water Shut-Off	
Notice of Mich	Alter Casing	Fracti	ure Treat		Recla	amation		Well Integrity	
✓ Subsequent Report	Casing Repair	☐ New	Construct	ion	Reco	mplete		Other	
Subsequent Report	Change Plans	Plug a	and Aban	don	Temp	porarily Abandon			
Final Abandonment Notice	Convert to Injection	Plug	Back		☐ Wate	r Disposal			
determined that the site is ready for On May 2nd, 2015 Richardson Oper Havasu Federal 22-19 - API: 43-037 Havasu Federal 41-24 - API: 43-037 Havasu Federal 42-24 - API: 43-037 Havasu Federal 11-19 - API: 43-037 Arabian Federal 3 - API 43-037-3124 Wash Unit 2 - API: 43-037-31324	rating Company temporar 7-31278 7-31279 7-31298 7-31458	ily shut in it's K	achina F	Field. This	includes	the following wells	:		
The field will remain shut-in until eco	э.	A sected by the				RECEIVED			
			Accepted by the			of.			
				Accepted by the Utah Division of Oil, Gas and Mining				MAY <b>1 1</b> 2015	
, ,			Oil (	Gas an	ıd Mii	ning			
		•	For	$\mathbf{R}$ ecc	ra U	Only Approval Of This	DIV.	OF OIL, GAS & MINING	
14. I hereby certify that the foregoing is to	rue and correct. Name (Printe	ed/Typed)		<u>-</u>	Action	Is Necessary			
Cody Niehus			Title C	Geo Tech					
			Title	360 1661				4.4.	
Signature				Date 05/04/2015					
	THIS SPACE	FOR FEDE	RAL C	OR STA	TE OF	FICE USE		······································	
Approved by			T						
			Ti	tle			Date	;	
Conditions of approval, if any, are attached that the applicant holds legal or equitable tentitle the applicant to conduct operations	title to those rights in the subje	s not warrant or co	certify ould O	ffice					

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false,

fictitious or fraudulent statements or representations as to any matter within its jurisdiction.